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Version 2.1, February 1999

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## 1.4 hibernate-entitymanager 3.6.7.Final

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## 1.8 json4s-core 3.2.5

## 1.9 json4s-ext 3.2.5

## 1.10 json4s-jackson 3.2.5

## 1.11 json4s-ast 3.2.5

## 1.12 json4s-native 3.2.5

## 1.13 metrics-core 3.1.0

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## 1.26 joda-convert 1.2

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## 1.27 antlr-runtime 4.5.1

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```
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ATNSimulator.java
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\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java  
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/opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerChannelAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerPushModeAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerAction.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerModeAction.java  
\*  
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\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerActionType.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ATNType.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/LexerCustomAction.java  
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jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java  
\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
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\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java

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- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ParseInfo.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
- \*
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- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ErrorInfo.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/VocabularyImpl.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/Vocabulary.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
- \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-

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 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/BlockEndState.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/DefaultErrorStrategy.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/misc/Array2DHashSet.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/ParserRuleContext.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/BlockStartState.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/misc/Triple.java  
 \*  
 /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/misc/IntegerStack.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-

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jar/org/antlr/v4/runtime/misc/NotNull.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/LoopEndState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ATNConfig.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/dfa/DFA.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/PredictionContextCache.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/LL1Analyzer.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/Recognizer.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/UnbufferedCharStream.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/ErrorNode.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/BaseErrorListener.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/Trees.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/RuleNode.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/TokenSource.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ATNConfigSet.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/BailErrorStrategy.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/EqualityComparator.java

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\* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/tree/Tree.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/ActionTransition.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/LexerATNConfig.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/InputMismatchException.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/Parser.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java  
 \*  
 /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/TokenStream.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/SetTransition.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/LexerNoViableAltException.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/RuleContext.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/misc/MurmurHash.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java  
 \*  
 /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/ANTLRFileStream.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/RecognitionException.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/RuleStopState.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/atn/ATN.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/misc/MultiMap.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/CharStream.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/TokenStreamRewriter.java  
 \*  
 /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-  
 jar/org/antlr/v4/runtime/IntStream.java  
 \* /opt/cola/permits/173665427\_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-



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jar/org/antlr/v4/runtime/misc/IntSet.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/LogManager.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/dfa/DFASerializer.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/StarLoopbackState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/IntervalSet.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/AtomTransition.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/CommonTokenFactory.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/ATNState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/TokenFactory.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/Token.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/NoViableAltException.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/CommonTokenStream.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/ANTLRInputStream.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/ANTLRErrorListener.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/IntegerList.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/PredictionContext.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/SemanticContext.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/ParseTreeListener.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/TerminalNode.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java

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* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/WritableToken.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/OrderedHashSet.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/DecisionState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/ParseTree.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/TokensStartState.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/EpsilonTransition.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/UnbufferedTokenStream.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/ProxyErrorListener.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/PredicateTransition.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/CommonToken.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/LexerInterpreter.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java
*
/opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/Lexer.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/Transition.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/misc/Interval.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /opt/cola/permits/173665427_1695321519.1830516/0/antlr4-runtime-4-5-1-sources-2-
jar/org/antlr/v4/runtime/atn/WildcardTransition.java

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## 1.28 copy-concurrently 1.0.5

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## 1.29 move-concurrently 1.0.1

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## 1.33 hibernate-validator 5.0.0.Final

## 1.34 spring-boot-autoconfigure

### 1.5.12.RELEASE

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/webservices/package-info.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/cache/HazelcastInstanceConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisEmbeddedConfigurationFactory.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/security/oauth2/client/SsoSecurityConfigurer.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/web/MultipartAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/batch/JobLauncherCommandLineRunner.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/cassandra/CassandraAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/AbstractDependsOnBeanFactoryPostProcessor.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/domain/EntityScanPackages.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/session/JdbcSessionConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/kafka/KafkaAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizer.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/mongo/MongoRepositoriesAutoConfigureRegistrar.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseProperties.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/social/SocialAutoConfigurerAdapter.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/session/StoreType.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/session/MongoSessionConfiguration.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/mobile/DeviceResolverAutoConfiguration.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/amqp/RabbitAutoConfiguration.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/solr/SolrAutoConfiguration.java

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 jar/org/springframework/boot/autoconfigure/transaction/jta/NarayanaJtaConfiguration.java  
 \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-  
 jar/org/springframework/boot/autoconfigure/mobile/DeviceDelegatingViewResolverProperties.java  
 \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-  
 jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseAutoConfiguration.java  
 \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-  
 jar/org/springframework/boot/autoconfigure/AutoConfigurationImportFilter.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/DefaultUserInfoRestTemplateFactory.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/ldap/package-info.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/web/OnEnabledResourceChainCondition.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/mongo/MongoDataAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/ldap/embedded/EmbeddedLdapAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateJpaAutoConfiguration.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/elasticsearch/jest/JestProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/ldap/LdapProperties.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceTransactionManagerAutoConfiguration.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/security/oauth2/method/OAuth2MethodSecurityConfiguration.java

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 jar/org/springframework/boot/autoconfigure/amqp/SimpleRabbitListenerContainerFactoryConfigurer.java  
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 jar/org/springframework/boot/autoconfigure/web/WebMvcProperties.java  
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 jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReportAutoConfigurationImportListener



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jar/org/springframework/boot/autoconfigure/flyway/FlywayProperties.java
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jar/org/springframework/boot/autoconfigure/cache/JCacheCacheConfiguration.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/data/ldap/LdapRepositoriesRegistrar.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceConfiguration.java
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jar/org/springframework/boot/autoconfigure/security/oauth2/resource/ResourceServerTokenServicesConfiguration.j
ava
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryCustomizer.java
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/mongo/embedded/EmbeddedMongoAutoConfiguration.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoTokenServices.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/transaction/TransactionAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadataLoader.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/mustache/MustacheProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/social/FacebookProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/PropertyPlaceholderAutoConfiguration.java

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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/batch/BatchProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/rest/SpringBootRepositoryRestConfigurer.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/ldap/LdapAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastProperties.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerAutoConfiguration.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/web/WebMvcValidator.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseAutoConfiguration.java

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jar/org/springframework/boot/autoconfigure/jdbc/EmbeddedDatabaseConnection.java  
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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryFactory.java  
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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/flyway/FlywayAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/condition/OnPropertyCondition.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/redis/RedisAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/context/MessageSourceAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/cache/CouchbaseCacheConfiguration.java  
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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/batch/BatchAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/web/ServerPropertiesAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/condition/OnBeanCondition.java

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Found in path(s):

- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/mustache/MustacheTemplateAvailabilityProvider.java
- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/condition/package-info.java
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- /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConfigurationCustomizer.java
- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/thymeleaf/package-info.java
- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/web/NonRecursivePropertyPlaceholderHelper.java
- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/websocket/package-info.java
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- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/solr/package-info.java
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- /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/groovy/template/package-info.java
- \* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jmx/package-info.java
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/package-info.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/data/redis/package-info.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/mustache/web/package-info.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/jackson/package-info.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/FlywayDataSource.java
*
```

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/opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/integration/package-info.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/AuthoritiesExtractor.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastInstanceFactory.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/security/BootGlobalAuthenticationConfiguration.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/data/AbstractRepositoryConfigurationSourceSupport.java
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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializerPostProcessor.java
```

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* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/template/TemplateLocation.java
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/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/gson/GsonAutoConfiguration.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/websocket/JettyWebSocketContainerCustomizer.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesRegistrar.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/websocket/UndertowWebSocketContainerCustomizer.java  
\*

/opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesRegistrar.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializedEvent.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/package-info.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/websocket/TomcatWebSocketContainerCustomizer.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/solr/SolrProperties.java  
\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/jdbc/metadata/HikariDataSourcePoolMetadata.java

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\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/security/SecurityPrerequisite.java

\* /opt/cola/permits/179477831\_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-jar/org/springframework/boot/autoconfigure/data/jpa/JpaRepositoriesAutoConfiguration.java

\*

```
/opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnNotWebApplication.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/batch/JobExecutionExitCodeGenerator.java
* /opt/cola/permits/179477831_1695330482.805969/0/spring-boot-autoconfigure-1-5-12-release-sources-
jar/org/springframework/boot/autoconfigure/batch/JobExecutionEvent.java
```

## 1.35 spring-boot 1.5.12.RELEASE

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* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/LazySessionIdGenerator.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/LoggingFailureAnalysisReporter.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/java/JavaLoggingSystem.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/FailureAnalysisReporter.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/orm/jpa/hibernate/SpringPhysicalNamingStrategy.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/PortInUseException.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/type/classreading/ConcurrentReferenceCachingMetadataReaderFactory.java
*
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/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ExitCodeExceptionMapper.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/client/RootUriTemplateHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/YamlJavaBeanPropertyConstructor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/RandomValuePropertySource.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/NoUniqueBeanDefinitionFailureAnalyzer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ServletContextInitializer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/RelaxedPropertyResolver.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/FailureAnalysis.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ExitCodeEvent.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/SpringApplicationBannerPrinter.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/filter/OrderedCharacterEncodingFilter.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/AbstractFilterRegistrationBean.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jackson/JsonComponent.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/filter/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/LocalServerPort.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/ConnectorStartFailureAnalyzer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/info/BuildProperties.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/AbstractConfigurableEmbeddedServletContainer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/SpringBootExceptionHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/ConfigurableEmbeddedServletContainer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-

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jar/org/springframework/boot/web/servlet/WebServletHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/WebListenerHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/Slf4JLoggingSystem.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/NarayanaXAConnectionFactoryWrapper.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/AbstractInjectionFailureAnalyzer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/lang/UsesUnsafeJava.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/PoolingDataSourceBean.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/PropertySourceUtils.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ResourceBanner.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/SpringApplicationRunListeners.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/ValidationExceptionFailureAnalyzer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/ClasspathLoggingApplicationListener.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TldSkipPatterns.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ErrorHandlerRegistrar.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/JspServlet.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/NarayanaDataSourceBean.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/SpringBootConfiguration.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/Ssl.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/PoolingConnectionFactoryBean.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/LevelRemappingAppender.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/NarayanaXADataSourceWrapper.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/FilterRegistrationBean.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/BeanNotOfRequiredTypeFailureAnalyzer.java

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jar/org/springframework/boot/context/embedded/tomcat/SslStoreProviderUrlStreamHandlerFactory.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatStarter.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedWebApplicationContext.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/env/EnvironmentPostProcessor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ServletComponentHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/LoggingSystemProperties.java
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/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/filter/OrderedHttpPutFormContentFilter.java
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* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatErrorPage.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/DefaultApplicationArguments.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/event/ApplicationStartingEvent.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jackson/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ImageBanner.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/system/SystemProperties.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
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jar/org/springframework/boot/env/PropertiesPropertySourceLoader.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/FailureAnalyzer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/InitParameterConfiguringServletContextInitializer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/orm/jpa/hibernate/SpringImplicitNamingStrategy.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/MimeMappings.java

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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/BeanDefinitionLoader.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/DelegatingFilterProxyRegistrationBean.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/Compression.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/AbstractFailureAnalyzer.java

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/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedDataBinder.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogFile.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/ContextIdApplicationContextInitializer.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/info/InfoProperties.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/diagnostics/analyzer/PortInUseFailureAnalyzer.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/SpringApplicationAdminMXBeanRegistrar.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerFactory.java

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/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/FileSessionPersistence.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/YamlPropertySourceLoader.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/client/RestTemplateCustomizer.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/hibernate/SpringJtaPlatform.java

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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorResponseRegistry.java

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/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/ServletContextInitializerConfiguration.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonObjectSerializer.java

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/DataSourceXAResourceRecoveryHelper.java

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* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
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/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/narayana/NarayanaConfigurationBean.java
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* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
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* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogLevel.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerException.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/WebApplicationContextServletContextAwareProcessor.java  
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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedServletContainerFactory.java  
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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/ansi/AnsiOutput.java  
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jar/org/springframework/boot/logging/LoggingApplicationListener.java  
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jar/org/springframework/boot/system/ApplicationPidFileWriter.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/web/support/ErrorHandler.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/liquibase/LiquibaseServiceLocatorApplicationListener.java  
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jar/org/springframework/boot/web/filter/ApplicationContextHeaderFilter.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/config/AnsiOutputApplicationListener.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/system/EmbeddedServerPortFileWriter.java  
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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaRecoveryManagerBean.java

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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationProperties.java

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\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/EnvironmentConverter.java

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jar/org/springframework/boot/validation/MessageInterpolatorFactory.java
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jar/org/springframework/boot/validation/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/NestedConfigurationProperty.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/annotation/DeterminableImports.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/BindFailureAnalyzer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerCustomizerBeanPostProcessor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/LogbackLoggingSystem.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ErrorResponseRegistrarBeanPostProcessor.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/info/GitProperties.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedErrorHandler.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/web/servlet/ServletComponentRegisteringPostProcessor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jackson/JsonComponentModule.java
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```

```
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```

Found in path(s):

```
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ApplicationPid.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerCustomizer.java
```

\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/liquibase/CommonsLoggingLiquibaseLogger.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/logging/log4j2/ExtendedWhitespaceThrowablePatternConverter.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/bind/PropertyOrigin.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/jta/bitronix/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/jta/atomikos/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/properties/DeprecatedConfigurationProperty.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/cloud/CloudPlatform.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/ApplicationArguments.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/event/ApplicationReadyEvent.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/event/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/properties/ConfigurationPropertiesBinding.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/json/JsonParser.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/bind/OriginCapablePropertyValue.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/ApplicationTemp.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/env/PropertySourceLoader.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/json/JsonJsonParser.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/jta/atomikos/AtomikosConnectionFactoryBean.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/orm/jpa/hibernate/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/json/JsonParserFactory.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/properties/ConfigurationBeanFactoryMetaData.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/jta/XAConnectionFactoryWrapper.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-  
jar/org/springframework/boot/context/embedded/AnnotationConfigEmbeddedWebApplicationContext.java



\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiBackground.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootBanner.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/SpringBootJoranConfigurator.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/cloud/package-info.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedBindingNotWritablePropertyException.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootVersion.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainer.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosDataSourceBean.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/EnableConfigurationProperties.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/lang/package-info.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationFailedEvent.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/SpringApplicationJsonEnvironmentPostProcessor.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationRunner.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/DeferredLog.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/InetAddressEditor.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/WhitespaceThrowablePatternConverter.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiStyle.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/XmlEmbeddedWebApplicationContext.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/ParentContextCloserApplicationListener.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/XADataSourceWrapper.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingInitializationContext.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-

```
jar/org/springframework/boot/CommandLineRunner.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/ansi/AnsiColor.java
```

```
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/SpringProfileAction.java
```

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Found in path(s):

```
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/DefaultPropertyNamePatternsMatcher.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/json/package-info.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/BitronixXADataSourceWrapper.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/undertow/UndertowBuilderCustomizer.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/atomikos/AtomikosDependsOnBeanFactoryPostProcessor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/yaml/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/json/JsonSimpleJsonParser.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/java/package-info.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/env/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
```

```

jar/org/springframework/boot/liquibase/SpringPackageScanClassResolver.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/env/EnumerableCompositePropertySource.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/BitronixXAConnectionFactoryWrapper.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/event/ApplicationPreparedEvent.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/jetty/JettyServerCustomizer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/LogbackConfigurator.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/logback/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/bitronix/BitronixDependentBeanFactoryPostProcessor.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/PatternPropertyNamePatternsMatcher.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/PropertyNamePatternsMatcher.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/log4j2/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/jta/atomikos/AtomikosXADataSourceWrapper.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/event/SpringApplicationEvent.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/liquibase/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/logging/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/undertow/UndertowDeploymentInfoCustomizer.java
*
/opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/Banner.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/package-info.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/event/ApplicationEnvironmentPreparedEvent.java
* /opt/cola/permits/179482990_1695330631.7608247/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/orm/jpa/package-info.java

```

\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedWebAppContext.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/package-info.java  
\*  
/opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/StringToArrayConverter.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosXAConnectionFactoryWrapper.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/StartupInfoLogger.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/package-info.java  
\* /opt/cola/permits/179482990\_1695330631.7608247/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/EmbeddedServletContainerInitializedEvent.java

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## 1.39 httpcore-nio 4.4.1

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# 1.45 commons-digester 1.8.1

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- \* /opt/cola/permits/1000000713\_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java
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- \* /opt/cola/permits/1000000713\_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinder.java

## 1.49 stax-api 1.0-2

## 1.50 grpc-context 1.9.0

# 1.51 opentracing-noop 0.31.0

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jar/io/opentracing/noop/NoopTracer.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpanContext.java
*
/opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpanBuilder.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopScopeManager.java
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## 1.52 grpc-protobuf-lite 1.9.0

## 1.53 opencensus-api 0.10.0

## 1.54 opencensus-contrib-grpc-metrics 0.10.0

## 1.55 okio 1.15.0

## 1.56 scalap 2.10.0

## 1.57 okio 1.12.0

## 1.58 opentracing-web-servlet-filter 0.1.0

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## 1.59 reflectasm 1.07

# 1.60 opentracing-util 0.31.0

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\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-util/pom.xml

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\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScopeManager.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScope.java

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/opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-

jar/io/opentracing/util/GlobalTracer.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-

jar/io/opentracing/util/AutoFinishScope.java

# 1.61 javaip 0.16

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## 1.63 jtoml 1.0.0

## 1.64 wsdl4j 1.6.2

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## **1.65 classmate 0.8.0**

## **1.66 android-json 0.0.20131108.vaadin1**

## **1.67 jzlib 1.0.7**

## **1.68 jeromq 0.3.2**

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## 1.70 paranamer 2.5.6

## 1.71 redline 1.2.6

## 1.72 diffutils 1.2.1

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## 1.74 apiguardian-api 1.0.0

## 1.75 minio 4.0.0



# 1.76 animal-sniffer-annotation 1.14

## 1.77 jcip-annotation 1.0

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```
* /opt/cola/permits/1000738273_1646171487.72/0/jcip-annotations-1-0-sources-
jar/net/jcip/annotations/ThreadSafe.java
* /opt/cola/permits/1000738273_1646171487.72/0/jcip-annotations-1-0-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1000738273_1646171487.72/0/jcip-annotations-1-0-sources-
jar/net/jcip/annotations/Immutable.java
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jar/net/jcip/annotations/GuardedBy.java
```

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```
<html>
<body>
<p>
  Class, field, and method level annotations for describing thread-safety policies.
</p>
```

```
<p>
  Three class-level annotations describe the <em>intended</em> thread-safety promises of a class:
  <code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>.
  <code>@Immutable</code> means that the class is immutable,
  and implies <code>@ThreadSafe</code>.
  <code>@NotThreadSafe</code> is optional;
  if a class is not annotated as thread-safe, it should be presumed not to be
  thread-safe, but if you want to make it extra clear, use
```

`@NotThreadSafe`.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `@Immutable` actually is immutable.

## Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables.

Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.

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</p>

</body>

</html>

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## 1.78 jcip-annotation 1.0-1

## 1.79 javax-inject 1

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\*

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\* /opt/cola/permits/1000738314\_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/package-info.java

# 1.80 jackson-mapper-asl 1.9.13

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*/
```

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```
*/opt/cola/permits/1000738824_1646171490.29/0/jackson-mapper-asl-1-9-13-sources-  
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

# 1.81 tiger-types 1.4

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\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/WildcardTypeImpl.java  
\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/TypeVisitor.java  
\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/Lister.java  
\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/Types.java  
\* /opt/cola/permits/1000738750\_1654022966.462261/0/tiger-types-1-4-sources-jar/org/jvnet/tiger\_types/ParameterizedTypeImpl.java

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jar/org/jvnet/tiger\_types/GenericArrayTypeImpl.java

## 1.82 qdox 1.12

## 1.83 xpp 1.1.4c

## 1.84 hamcrest-all 1.3

# 1.85 javax-ws-rs-api 2.0.1

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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Request.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/OPTIONS.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/UriInfo.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java
- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/CookieParam.java

```

* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/MessageBodyReader.java
*
/opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/HEAD.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/NewCookie.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/UriBuilder.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/POST.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/DefaultValue.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ApplicationPath.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/DELETE.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/package-
info.java
*
/opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Application.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/QueryParam.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/PathParam.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/PUT.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Cookie.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/Variant.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/Consumes.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/client/FactoryFinder.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/HttpHeaders.java
*
/opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/FormParam.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/core/EntityTag.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/Produces.java

```

## 1.86 asm 5.0.4



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```

```
*/
```

```
/**
```

```
* Constructs a new {@link ClassNode}. Subclasses must not use this
* constructor. Instead, they must use the {@link #ClassNode(int)}
* version.
*
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
*/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/ClassNode.java
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```

```
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* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.java
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\*/

/\*\*

\* Creates a new JSRInliner. *<i>*Subclasses must not use this  
 \* constructor*</i>*. Instead, they must use the  
 \* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}  
 \* version.

\*

\* @param mv  
 \*

the `MethodVisitor` to send the resulting inlined  
 \* method code to (use `null` for none).

\* @param access  
 \* the method's access flags (see { @link Opcodes}). This  
 \* parameter also indicates if the method is synthetic and/or  
 \* deprecated.

\* @param name  
 \* the method's name.

\* @param desc  
 \* the method's descriptor (see { @link Type}).

\* @param signature  
 \* the method's signature. May be `null`.

\* @param exceptions

```
* the internal names of the method's exception classes (see
* {@link Type#getInternalName() getInternalName}). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
```

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```
/**
```

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```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/IntInsnNode.java
```

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
```

```
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
```

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FrameNode.java
```

\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/TableSwitchGenerator.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Attribute.java  
\*  
/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/FieldVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/VarInsnNode.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/AdviceAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifier.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-

jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/AnnotationVisitor.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/JumpInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/Method.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/ParameterNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/optimizer/NameMapping.java



\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Context.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java  
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 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassWriter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Item.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java  
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 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureReader.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InnerClassNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
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 /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java  
 \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Frame.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/Remapper.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java  
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/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.java  
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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of
the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

```

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- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/Processor.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-
- jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-
- jar/org/objectweb/asm/xml/ASMContentHandler.java
- \*
- /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-
- jar/org/objectweb/asm/xml/SAXClassAdapter.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-
- jar/org/objectweb/asm/xml/SAXCodeAdapter.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-
- jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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\*/

/\*\*

\* Creates a new { @link AnalyzerAdapter}. *Subclasses must not use this*  
\* constructor*.* Instead, they must use the  
\* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}  
\* version.

\*

\* @param owner

\*

the owner's class name.

\* @param access

\* the method's access flags (see { @link Opcodes}).

\* @param name

\* the method's name.

\* @param desc

\* the method's descriptor (see { @link Type Type}).

\* @param mv

\* the method visitor to which this adapter delegates calls. May

\* be `<tt>null</tt>`.

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

Found in path(s):

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

`/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Textifier.java`

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-resize.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties

\*

/opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-writer.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-frames.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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```
*/
/**
 * Creates a new { @link GeneratorAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *     the
method visitor to which this adapter delegates calls.
 * @param access
 *     the method's access flags (see { @link Opcodes}).
 * @param name
 *     the method's name.
 * @param desc
 *     the method's descriptor (see { @link Type Type}).
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */
```

Found in path(s):

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
```

## 1.87 annotations 3.0.1

## 1.88 jcl-over-slf4j 1.7.21

## 1.89 asm 4.0

## 1.90 antlr 2.7.6

## 1.91 protobuf-java 3.5.1

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```
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LongArrayList.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/AbstractParser.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/api.proto  
*  
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Internal.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Service.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Descriptors.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ServiceException.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormat.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Utf8.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ExtensionLite.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/type.proto  
*  
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ProtobufArrayList.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/ExtensionRegistryLite.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/SingleFieldBuilder.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/google/protobuf/source_context.proto  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormatEscaper.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/TextFormatParseLocation.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
```

```

jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/LazyFieldLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/struct.proto
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/CodedInputStream.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/FloatArrayList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MessageLiteToString.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/empty.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ExtensionRegistry.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/duration.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Parser.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MapEntry.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/LazyField.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/LazyStringList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UninitializedMessageException.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RopeByteString.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/InvalidProtocolBufferException.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/any.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/Extension.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/NioByteString.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MessageOrBuilder.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/GeneratedMessageV3.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ByteBufferWriter.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ByteString.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-

```

```

jar/com/google/protobuf/AbstractMessageLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MapField.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MapEntryLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UnsafeByteOperations.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/AbstractMessage.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ByteOutput.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ExtensionRegistryFactory.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UnknownFieldSetLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RpcUtil.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MapFieldLite.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/DynamicMessage.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/BlockingRpcChannel.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ExperimentalApi.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/ProtocolMessageEnum.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/GeneratedMessageLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/BlockingService.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RepeatedFieldBuilder.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/TextFormatParseInfoTree.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-

```

```

jar/com/google/protobuf/ProtocolStringList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MessageLiteOrBuilder.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/BooleanArrayList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/CodedOutputStream.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/DiscardUnknownFieldsParser.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RpcChannel.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/LazyStringArrayList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/DoubleArrayList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RepeatedFieldBuilderV3.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/AbstractProtobufList.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/SingleFieldBuilderV3.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MessageLite.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/RpcCallback.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/FieldSet.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MutabilityOracle.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/Message.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/descriptor.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UnsafeUtil.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/IterableByteBufferInputStream.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/UnknownFieldSet.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/IntArrayList.java
*
/opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-
jar/com/google/protobuf/MessageReflection.java
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-

```

# 1.92 geronimo-javamail 1.7.1

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## 1.95 minimal-json 0.9.4

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## 1.97 instrumentation-api 0.4.3

## 1.98 slf4j 1.7.21

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\*/

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
import java.security.PermissionCollection;
```

```
import java.util.Enumeration;
```

```
public final class AllPermissions extends ClusterPermission {
```

```

public AllPermissions() {
    super("<all permissions>");
}

@Override
public boolean implies(Permission permission) {
    return true;
}

@Override
public String getActions() {
    return "<all actions>";
}

@Override
public PermissionCollection newPermissionCollection() {
    return new AllPermissionsCollection();
}

@Override
public String toString() {
    return "<allow all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
}

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {

```



```

    if (permission instanceof AllPermissions) {
        all = true;
    }
}

@Override
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

```

```

    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }
}
}
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 */

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String
name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {

```

```

        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final
int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {

```

```

    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action))
    {
        mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
    }
    return mask;
}
}
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```

```

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*/

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
```

```
import java.security.Permission;
```

```
/**
```

```
 * TODO: Object Permission
```

```
*/
```

```
public abstract class InstancePermission extends ClusterPermission {
```

```
    protected static final int NONE = 0;
```

```
    protected static final int CREATE = 1;
```

```
    protected static final int DESTROY =
```

```
    2;
```

```
    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new  
    WildcardConfigPatternMatcher();
```

```
    protected final int mask;
```

```
    protected final String actions;
```

```
    public InstancePermission(String name, String... actions) {
```

```
        super(name);
```

```
        if (name == null || "".equals(name)) {
```

```
            throw new IllegalArgumentException("Permission name is mandatory!");
```

```
        }
```

```
        mask = initMask(actions);
```

```
        final StringBuilder s = new StringBuilder();
```

```
        for (String action : actions) {
```

```
            s.append(action).append(" ");
```

```
        }
```

```
        this.actions = s.toString();
```

```
    }
```

```
/**
```

```
 * init mask
```

```
*/
```

```
protected abstract int initMask(String[] actions);
```

```
@Override
```

```

public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask)
== that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {

```

```

        return false;
    }
    return true;
}
}
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*/

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT
= 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}

```



```

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
        mask |= PUT;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_LISTEN.equals(action))
    {
        mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;

```

```

private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

public CachePermission(String
name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */

```

```

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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```

```

*/

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String
name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
@Override
```

```
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
            mask |= PUBLISH;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
/*
```

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*/
```

```
package com.hazelcast.security.permission;
```

```
public class ExecutorServicePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String
```

```
action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
    }
```

```
    /*
```

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```

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\*/

```
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import
    com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
```

```

public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static
final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME,
new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {

```



```

@Override
public Permission create(String name, String... actions) {
    return new AtomicLongPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return
new CountdownLatchPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new SemaphorePermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new TopicPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new LockPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new ExecutorServicePermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
}
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new MapReducePermission(name, actions);
}
}

```

```

});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name,
actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override

    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

```

```

}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory
    permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

}

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 */

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

}

@Override
protected int initMask(String[]
actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;

```

```

import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
            || (permission instanceof ClusterPermission);

        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }

    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            for (Permission p : ((ClusterPermissionCollection)
permissions).perms) {
                add(p);
            }
        }
    }

    @Override
    public boolean implies(Permission permission) {
        for (Permission p : perms) {
            if (p.implies(permission)) {
                return true;
            }
        }
        return false;
    }
}

```

```

}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements()
{
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "];"
}
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class SemaphorePermission extends InstancePermission {
```

```
    private static final int ACQUIRE = 4;
```

```
    private static final int RELEASE = 8;
```

```
    private static final int READ = 16;
```

```
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;
```

```
    public SemaphorePermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
```

```
                mask |= ACQUIRE;
```

```
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
```

```
                mask |= RELEASE;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```
            } else if (ActionConstants.ACTION_READ.equals(action)) {
```

```
                mask |= READ;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
    }
```

```
    /*
```

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*/
```

```
package com.hazelcast.security.permission;
```

```
public class MultiMapPermission extends MapPermission {
```

```
    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
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```

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```
*/
```

```
package com.hazelcast.security.permission;
```

```
public class AtomicLongPermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

```
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;
```

```
    public AtomicLongPermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```



```

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }
}

```

```

@Override
public void add(Permission permission) {
}

@Override
public boolean implies(Permission
permission) {
    return false;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class SetPermission extends ListPermission {
```

```
    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
/*
```

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*/
```

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
```

```
public class TransactionPermission extends ClusterPermission {
```

```
    public TransactionPermission() {
        super("<transaction>");
    }
}
```

```
@Override
```

```
public boolean implies(Permission permission) {
    return getClass() == permission.getClass();
}
```

```
@Override
```

```

    public String
    getActions() {
        return "transaction";
    }
}
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*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashCode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new
ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashCode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {

```

```

        result = prime * result + getName().hashCode();
    }
    hashCode = result;
}
return hashCode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}
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 */

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

```

```

private static final int READ = 4;
private static final int MODIFY = 8;

private static final int ALL = READ | MODIFY | CREATE | DESTROY;

public ScheduledExecutorPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

```

```

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected
    int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
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 * limitations under the License.
 */

```

```

package com.hazelcast.security.permission;

public class CountdownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountdownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }
}
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```



```

*/

/**
 * Contains all the security permissions
 */
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*/

```

```

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[]
actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
    }
}

```

```

    }
  }
  return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

```

# 1.100 scala-compiler 2.10.0

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\* \$Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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\* \$Header\$

\* \$Revision: 1161 \$

\* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.java  
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\* \$Header\$  
\* \$Revision: 1255 \$  
\* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$  
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\* \$Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java  
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\* \$Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo \$

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\* \$Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

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\* \$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo \$  
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\* \$Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo \$  
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* James Strachan <jstrachan@apache.org>. For more information on the
* Jaxen Project, please see <http://www.jaxen.org/>.
*
* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1157 $
* $Date: 2006-06-03 13:07:37 -0700 (Sat, 03 Jun 2006) $
*
* =====
*

```



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\* \$Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java  
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\* \$Header\$  
\* \$Revision: 1335 \$  
\* \$Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) \$  
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\*  
\* \$Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java

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\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\*  
\* \$Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultOrExpr.java  
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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

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jar/org/jaxen/function/StartsWithFunction.java  
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```
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 * $Revision: 1261 $
 * $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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\* \$Id: DefaultAbsolutePath.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo \$

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\$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo \$

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\* \$Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

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\*  
\* \$Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

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\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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\* \$Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo \$

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jar/org/jaxen/function/ext/LocaleFunctionSupport.java

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\* \$Revision: 1345 \$

\* \$Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) \$

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\* \$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo \$

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java  
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\* \$Header\$

\* \$Revision: 1321 \$

\* \$Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) \$

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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

```

Found in path(s):

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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/NamedAccessNavigator.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultRelationalExpr.java
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/*
* $Header$
* $Revision: 1366 $
* $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $

```

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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
*/

```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
```



jar/org/jaxen/expr/DefaultFunctionCallExpr.java

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```
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 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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\*  
\* \$Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java  
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/\*  
\* \$Header\$  
\* \$Revision: 1337 \$  
\* \$Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) \$  
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\*  
\* \$Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathFactory.java  
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\* \$Revision: 1128 \$

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\*  
\* \$Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java

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\* \$Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java  
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\* \$Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo \$  
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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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\*  
\* \$Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java  
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\* \$Header\$  
\* \$Revision: 1279 \$  
\* \$Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) \$  
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\* \$Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java  
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\* \$Revision: 1162 \$

\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableSelfAxis.java

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\* \$Revision: 1332 \$

\* \$Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) \$

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\* \$Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo \$

\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java

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\* \$Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

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\* \$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

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\* \$Revision: 1306 \$

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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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\* \$Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-

jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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\*  
\* \$Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java  
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\* \$Id: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo \$

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java

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\* \$Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/SubstringAfterFunction.java

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\* \$Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java  
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\$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

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\* \$Revision: 1171 \$

\* \$Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) \$

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\*  
\* \$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/dom4j/DocumentNavigator.java  
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\* \$Revision: 1128 \$  
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java
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/*
* $Header$

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\* \$Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) \$  
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\* \$Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo \$  
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\* \$Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$

\*/

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\* \$Id: Axis.java 1133 2006-03-30 13:56:36Z elharo \$  
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\* \$Revision: 1255 \$

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\* \$Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java  
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\*

\* \$Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Operator.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
*

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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/SumFunction.java
No license file was found, but licenses were detected in source scan.
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```

/*
 * $Header$
 * $Revision: 1261 $
 * $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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 *
 * $Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo $
 */

```

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPlusExpr.java

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\* \$Revision: 1128 \$

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\* \$Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultStep.java  
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\* \$Header\$

\* \$Revision: 1386 \$

\* \$Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) \$

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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NumberFunction.java
No license file was found, but licenses were detected in source scan.
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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\* \$Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/SubstringBeforeFunction.java

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* $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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```

\*  
\* \$Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.java  
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\* \$Header\$  
\* \$Revision: 1252 \$  
\* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$  
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\* \$Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/BinaryExpr.java  
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\* \$Header\$  
\* \$Revision: 1396 \$  
\* \$Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) \$  
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\* \$Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

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\* \$Header\$

\* \$Revision: 1251 \$

\* \$Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) \$

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\* \$Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultXPathFactory.java

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\* \$Revision: 1162 \$

\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\*  
\* \$Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableFollowingAxis.java

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\* \$Revision: 1261 \$  
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMinusExpr.java

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* $Header$
* $Revision: 1253 $
* $Date: 2006-11-09 08:39:19 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SingletonList.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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 * $Revision: 1252 $
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\* \$Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo \$

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\* \$Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Revision: 1128 \$

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\* \$Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultCommentNodeStep.java

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\* \$Header\$  
\* \$Revision: 1159 \$  
\* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/SimpleNamespaceContext.java

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\* \$Header\$  
\* \$Revision: 1268 \$  
\* \$Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) \$

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\* \$Id: Step.java 1268 2006-12-10 15:32:14Z elharo \$

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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java

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\$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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\* \$Header\$

\* \$Revision: 1255 \$

\* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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\* \$Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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*
* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java

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* $Header$
* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.java
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* $Revision: 1128 $
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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 * $Header$
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 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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 * $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
 */

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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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\* \$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java  
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\* \$Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo \$

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\* \$Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/TranslateFunction.java  
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\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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\*  
\* \$Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/AnyChildNodeTest.java

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\* \$Header\$  
\* \$Revision: 1273 \$  
\* \$Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) \$

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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
*/

```

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLiteralExpr.java
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```

```

/*
* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
*
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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```

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/*

```

```

* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.java

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\* \$Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins \$

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 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
```

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\* \$Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java  
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\* \$Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/FollowingAxisIterator.java  
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\$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo \$

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\* \$Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$  
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\*

\* \$Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/NamespaceUriFunction.java

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\* \$Header\$

\* \$Revision: 1134 \$

\* \$Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) \$

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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
*/

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.java
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/*
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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\* \$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/XPathSyntaxException.java

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\* \$Revision: 1128 \$  
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StringFunction.java
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/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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 * $Header$
 * $Revision: 1257 $
 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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 * $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
 */

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingSiblingAxisIterator.java

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\* \$Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/LangFunction.java  
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\* \$Revision: 1257 \$  
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\* \$Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo \$  
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\* \$Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
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\* \$Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\*

\* \$Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicated.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: Token.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java

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\* \$Header\$

\* \$Revision: 1160 \$

\* \$Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/UnsupportedAxisException.java

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\* \$Header\$  
\* \$Revision: 1234 \$  
\* \$Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) \$  
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\*  
\* \$Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java  
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\* \$Header\$  
\* \$Revision: 1247 \$  
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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\* \$Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternHandler.java  
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\* \$Header\$  
\* \$Revision: 1159 \$  
\* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$  
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\* \$Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java

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\* \$Revision: 1225 \$

\* \$Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/CommentNodeStep.java  
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```
/*
 * $Header$
 * $Revision: 1198 $
 * $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $
 *
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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```
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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\* \$Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java  
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\* \$Revision: 1159 \$  
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\* \$Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo \$

\*/

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\* \$Revision: 1325 \$

\* \$Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) \$

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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java
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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/SubstringFunction.java

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\* \$Header\$

\* \$Revision: 1154 \$

\* \$Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) \$

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\* \$Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/QualifiedName.java  
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/\*  
\* \$Header\$  
\* \$Revision: 1179 \$  
\* \$Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) \$  
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/FunctionCallException.java
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\* \$Header\$

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* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
*/
```

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/VariableReferenceExpr.java

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\* \$Revision: 1252 \$

\* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$

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\*  
\* \$Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java  
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\* \$Header\$  
\* \$Revision: 1162 \$  
\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$  
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\*  
\* \$Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java  
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\* \$Revision: 1370 \$

\* \$Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) \$

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\*  
\* \$Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java  
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\* \$Header\$  
\* \$Revision: 1252 \$  
\* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$  
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\* \$Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo \$

\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java

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\* \$Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java  
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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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\* \$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/BooleanFunction.java  
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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java
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/*
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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\* \$Id: Expr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Expr.java

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\* \$Header\$

\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\*  
\* \$Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAndExpr.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyNodeTest.java  
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```
/*  
* $Header$  
* $Revision: 1261 $  
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $  
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\*

\* \$Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*

\* \$Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/SAXPathEventSource.java

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\* \$Header\$

\* \$Revision: 1161 \$

\* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java  
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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java  
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\* \$Header\$  
\* \$Revision: 1245 \$  
\* \$Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) \$  
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\* \$Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java

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*
* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/StackedIterator.java
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```

```

/*

```

\* \$Header\$  
\* \$Revision: 1132 \$  
\* \$Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) \$  
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\*  
\* \$Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo \$  
\*/



Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java

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\* \$Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/TextNodeTest.java  
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\$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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```
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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```

\*  
\* \$Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

Found in path(s):

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\*  
\* \$Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/LocationPathPattern.java  
No license file was found, but licenses were detected in source scan.

```
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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\*

\* \$Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantAxisIterator.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/ext/LowerFunction.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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\* \$Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleFunctionContext.java  
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/\*  
\* \$Header\$  
\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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\* \$Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.java  
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\* \$Header\$  
\* \$Revision: 1367 \$  
\* \$Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) \$  
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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $

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\* \$Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/ext/EvaluateFunction.java

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\* \$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo \$  
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\* \$Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo \$

\*/

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\* \$Revision: 1324 \$

\* \$Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) \$

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\* \$Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo \$  
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jar/org/jaxen/function/StringLengthFunction.java

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\* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$  
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*
* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java

```

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```

/*
* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
*
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\*  
\* \$Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/base/XPathReader.java

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\* \$Header\$

\* \$Revision: 1161 \$

\* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo \$

\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathException.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: Function.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Function.java  
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```
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 * $Header$
 * $Revision: 1168 $
 * $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
 *
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\* \$Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java  
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\* \$Header\$

\* \$Revision: 1237 \$

\* \$Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java  
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\* \$Header\$  
\* \$Revision: 1228 \$  
\* \$Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) \$  
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\* \$Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo \$

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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.java

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\* \$Revision: 1168 \$

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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
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\* \$Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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\* \$Revision: 1277 \$  
\* \$Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) \$  
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\* \$Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo \$  
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\*/opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/UpperFunction.java

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\* \$Header\$

\* \$Revision: 1364 \$

\* \$Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) \$

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*
* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/
```

Found in path(s):

```
*/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
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/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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\* \$Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPredicate.java

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\* \$Header\$

\* \$Revision: 1225 \$

\* \$Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AllNodeStep.java

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\* \$Revision: 1236 \$

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\*  
\* \$Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java  
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\* \$Revision: 1334 \$  
\* \$Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) \$

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\*  
\* \$Id: TokenType.java 1334 2008-11-29 17:58:48Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenType.java  
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\* \$Revision: 1128 \$  
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 \*  
 \* \$Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo \$  
 \*/

Found in path(s):  
 \* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java  
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 \* \$Header\$  
 \* \$Revision: 1161 \$  
 \* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$  
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*
* $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java

```

## **1.102 scala-reflect 2.10.4**

## **1.103 swagger-annotations 1.3.12**

## **1.104 swagger-jersey2-jaxrs 1.5.0**

## **1.105 commons-compiler 2.6.1**

## **1.106 proto-google-common-protos 1.0.0**

## **1.107 minlog 1.2**

## **1.108 hazelcast 3.8.9**

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## 1.110 jul-to-slf4j 1.7.21

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## 1.112 asm-util 4.0

# 1.113 not-yet-commons-ssl 0.3.11

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## 1.115 castor-core 1.3.1

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## 1.117 commons-pool 1.5.3

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## 1.118 quartz 1.6.0

## 1.119 woodstox-core-asl 4.1.4

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jar/com/ctc/wstx/sw/OutputElementBase.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/util/BijectiveNsMap.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/sw/SimpleOutputElement.java

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jar/com/ctc/wstx/dtd/DFASState.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/dtd/ContentSpec.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/dtd/DFAValidator.java  
\*

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jar/com/ctc/wstx/dtd/StructValidator.java

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jar/com/ctc/wstx/util/PrefixedReader.java

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jar/com/ctc/wstx/io/AsciiReader.java

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jar/com/ctc/wstx/evt/BaseStartElement.java

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/opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/io/EBCDICCodec.java

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jar/com/ctc/wstx/exc/WstxException.java

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jar/com/ctc/wstx/evt/DefaultEventAllocator.java  
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jar/com/ctc/wstx/stax/WstxEventFactory.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/ent/EntityDecl.java  
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/opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/io/WstxInputLocation.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/io/WstxInputData.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/util/BaseNsContext.java  
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jar/com/ctc/wstx/sax/WstxSAXParserFactory.java  
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jar/com/ctc/wstx/sax/SAXProperty.java  
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/opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/sax/SAXFeature.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/sax/WrappedSaxException.java  
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jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
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jar/com/ctc/wstx/msv/GenericMsvValidator.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/dtd/DTDSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/stax/WstxOutputFactory.java
*
/opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/BaseSchemaFactory.java
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jar/com/ctc/wstx/dtd/DTDElement.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/dtd/DefaultAttrValue.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/dtd/DTDAtribute.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/RelaxNGSchema.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
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* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/sw/NonNsStreamWriter.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/util/SymbolTable.java
*
/opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/stax/WstxInputFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/dtd/DTDSubset.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/dtd/DTDId.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/sr/ValidatingStreamReader.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/W3CSchema.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/W3CSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/AttributeProxy.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/evt/WstxEventReader.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/util/ElementIdMap.java

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- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/AttributeCollector.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/TypedStreamReader.java
- \*
- /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/XmlWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/dtd/DTDValidator.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/BasicStreamReader.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/EncodingXmlWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/dtd/DTDEventListener.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/TypedStreamWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/AsciiXmlWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/InputElementStack.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
- \*
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- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/Element.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/XmlWriterWrapper.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sr/NsDefaultProvider.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/dtd/FullDTDReader.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/BufferingXmlWriter.java
- \* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/io/ReaderBootstrapper.java
- \*
- /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/dtd/MinimalDTDReader.java
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jar/com/ctc/wstx/io/ISOLatinReader.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
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\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/io/WstxInputSource.java  
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jar/com/ctc/wstx/sw/BaseStreamWriter.java  
\* /opt/cola/permits/1001157969\_1646171599.34/0/woodstox-core-asl-4-1-4-sources-  
jar/com/ctc/wstx/dtd/DTDDTypingNonValidator.java

## 1.120 jersey-bean-validation 2.5.1

## 1.121 cxf-rt-frontend-jaxrs 2.7.3

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## 1.123 javax-el 2.2.4

## 1.124 swagger-springmvc 0.8.8

## 1.125 castor-xml 1.3.1

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## 1.127 config 1.0.2

## 1.128 jersey-client 2.5.1

## 1.129 cxf-rt-transports-http 2.7.3

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## **1.131 jersey-container-servlet-core 2.5.1**

## **1.132 freemarker 2.3.23**

## **1.133 jersey-media-multipart 2.5.1**

## **1.134 cassandra-driver-core 2.1.0**

## **1.135 jersey-common 2.24.1**

## **1.136 cxf-rt-core 2.7.3**

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ASM: a very small and fast Java bytecode manipulation framework

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## 1.141 cxf-rt-bindings-xml 2.7.3

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Found in path(s):

```
*
/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/security/AuthenticationProtocol.java
```

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_## SNMP4J - ByteArrayWindow.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/util/SnmpConfigurator.java
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jar/org/snmp4j/transport/DefaultTcpTransportMapping.java
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```
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/security/PrivAES256.java
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jar/org/snmp4j/security/UsmTimeEntry.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
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*/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
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jar/org/snmp4j/smi/AbstractVariable.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/util/package.html
*
/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/smi/package.html
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/asn1/package.html
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/transport/package.html
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/mp/package.html
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/security/package.html
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```

Found in path(s):

```

*/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/security/Salt.java

```

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```
* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-  
jar/org/snmp4j/log/Log4jLogAdapter.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-  
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jar/org/snmp4j/smi/AssignableFromLong.java

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```
*/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/event/AuthenticationFailureListener.java
```

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```
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_## SNMP4J - DefaultTimeoutModel.java
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*/opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/DefaultTimeoutModel.java
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\* /opt/cola/permits/1001073649\_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/security/AuthSHA.java  
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\* /opt/cola/permits/1001073649\_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/asn1/BERInputStream.java  
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path(s):

\* /opt/cola/permits/1001073649\_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/transport/ConnectionOrientedTransportMapping.java  
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/util/VariableTextFormat.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-
jar/org/snmp4j/transport/TransportStateEvent.java
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* /opt/cola/permits/1001073649_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/util/WorkerPool.java
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_## SNMP4J - MPv2c.java
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\* /opt/cola/permits/1001073649\_1610467014.22/0/snmp4j-1-11-3-sources-2-jar/org/snmp4j/transport/MessageLength.java

## 1.145 gson 2.2.3

## 1.146 jersey-client 2.24.1

## 1.147 jersey-common 2.5.1

## 1.148 jersey-container-servlet 2.5.1

## 1.149 cxf-api 2.7.3

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## 1.150 avro 1.7.5

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**1.153 websocket-servlet 9.3.27.v20190418**

**1.154 websocket-common 9.3.27.v20190418**

**1.155 websocket-api 9.3.27.v20190418**

## 1.156 websocket-client 9.3.27.v20190418

## 1.157 websocket-server 9.3.27.v20190418

## 1.158 java-concurrent-hash-trie-map 0.2.23

## 1.159 xstream 1.2.2

## 1.160 hibernatejpa2.0api 1.0.1.Final

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## 1.161 profiler 1.0.2

## 1.162 swagger-annotations 1.5.22

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```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;  
import java.lang.annotation.Retention;  
import java.lang.annotation.RetentionPolicy;  
import java.lang.annotation.Target;
```

```
/**  
 * License metadata available within the info section of a Swagger definition, see  
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject  
 *  
 * @since 1.5.0  
 */
```

```
@Target(ElementType.ANNOTATION_TYPE)  
@Retention(RetentionPolicy.RUNTIME)  
public @interface License {
```

```
    /**  
     * The name of the license.  
     *  
     * @return the name of the license  
     */  
    String name();  
  
    /**  
     * An optional URL for the license.  
     *  
     * @return an optional URL for the license.  
     */  
    String url() default "";  
}
```

## 1.163 jedis 2.10.2

## 1.164 jetty-xml 9.4.18.v20190429

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.165 jetty-continuation 9.4.18.v20190429

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- \* org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.166 jetty-webapp 9.4.18.v20190429

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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org.mortbay.jasper:apache-jsp  
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org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.168 jetty 9.4.18.v20190429

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The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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## Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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- org.ow2.asm:asm-commons

- org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.169 jetty-servlets 9.4.18.v20190429

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle



The following artifacts are CDDL + GPLv2 with classpath exception.

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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#### Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.170 jetty-security 9.4.18.v20190429

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\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

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org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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## Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm



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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.172 swagger-core 1.5.22

## 1.173 swagger-jaxrs 1.5.22

## 1.174 babel-polyfill 6.26.0

## 1.175 opentracing-spring-web-autoconfigure 0.3.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.



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# 1.182 jsqlparser 2.1

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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## 1.192 swagger-models 1.5.22

### 1.192.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
package io.swagger.models;
```

```
import com.fasterxml.jackson.annotation.JsonAnyGetter;  
import com.fasterxml.jackson.annotation.JsonAnySetter;
```

```
import java.util.LinkedHashMap;  
import java.util.Map;
```

```
public class License {  
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();  
    private String name;  
    private String url;
```

```
    public License name(String name) {  
        setName(name);  
        return this;  
    }
```

```
    public License url(String url) {  
        setUrl(url);  
        return this;  
    }
```

```

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void
setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
}

```

```

    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name == null) {
        if (other.name
!= null) {
            return false;
        }
    } else if (!name.equals(other.name)) {
        return false;
    }
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    return true;
}
}

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1019872321\_1594205453.91/0/swagger-models-1-5-22-sources-jar/io/swagger/models/License.java

No license file was found, but licenses were detected in source scan.

```
package io.swagger.models;
```

```
import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
```

```
import java.util.LinkedHashMap;
import java.util.Map;
```

```
public class Info {
    private String description;
```



```
private String version;
private String title;
private String termsOfService;
private Contact contact;
private License license;
private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

public Info version(String version) {
    this.setVersion(version);
    return this;
}

public Info title(String title) {
    this.setTitle(title);
    return this;
}

public Info description(String description) {
    this.setDescription(description);
    return this;
}

public Info termsOfService(String termsOfService) {
    this.setTermsOfService(termsOfService);
    return this;
}

public Info contact(Contact contact) {
    this.setContact(contact);
    return this;
}

public Info license(License license) {
    this.setLicense(license);
    return this;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getVersion() {
    return version;
}
```

```
}

public void setVersion(String version) {
    this.version = version;
}

public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getTermsOfService() {
    return termsOfService;
}

public void setTermsOfService(String termsOfService) {
    this.termsOfService = termsOfService;
}

public Contact getContact() {
    return contact;
}

public void setContact(Contact contact) {
    this.contact = contact;
}

public License getLicense() {
    return license;
}

public void setLicense(License license) {
    this.license = license;
}

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {
            this.title = info.title;
        }
    }
}
```

```

    }
    if (this.termsOfService == null) {
        this.termsOfService = info.termsOfService;
    }
    if (this.contact == null) {
        this.contact = info.contact;
    }
    if (this.license == null) {
        this.license = info.license;
    }
    if (this.vendorExtensions == null) {
        this.vendorExtensions = info.vendorExtensions;
    }
}
return this;
}

```

@JsonAnyGetter

```

public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

```

@JsonAnySetter

```

public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

```

```

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

```

@Override

```

public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result
        + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result
        + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    result = prime * result + ((title == null) ? 0 : title.hashCode());
    result
= prime * result
        + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    result = prime * result + ((version == null) ? 0 : version.hashCode());
}

```

```

    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    Info other = (Info) obj;
    if (contact == null) {
        if (other.contact != null) {
            return false;
        }
    } else if (!contact.equals(other.contact)) {
        return false;
    }
    if (description == null) {
        if (other.description != null) {
            return false;
        }
    } else if (!description.equals(other.description)) {
        return false;
    }
    if (license == null) {
        if (other.license != null) {
            return false;
        }
    } else if (!license.equals(other.license)) {
        return false;
    }
    if (termsOfService == null) {
        if (other.termsOfService != null) {
            return false;
        }
    } else if (!termsOfService.equals(other.termsOfService)) {
        return false;
    }
    if (title == null) {
        if (other.title != null) {
            return false;
        }
    } else if (!title.equals(other.title)) {

```

```

        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    if (version == null) {
        if (other.version != null) {
            return false;
        }
    } else if (!version.equals(other.version)) {
        return false;
    }
    return true;
}
}

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1019872321\_1594205453.91/0/swagger-models-1-5-22-sources-jar/io/swagger/models/Info.java

## 1.193 http-signature 1.2.0

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# 1.194 babel-plugin-syntax-nullish-coalescing-operator 7.8.3

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# 1.195 babel-plugin-syntax-optional-chaining 7.8.3

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## 1.196 ejs 2.7.4

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# 1.197 xerces 2.9.1

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\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/DocumentAS.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
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\*  
/opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
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\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/ASDataType.java  
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\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java  
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\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java

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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
jar/org/apache/xerces/parsers/ObjectFactory.java
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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 jar/org/apache/xerces/dom/DeferredElementNSImpl.java  
 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
 jar/org/apache/xml/serialize/SerializerFactory.java  
 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
 jar/org/apache/xerces/impl/xpath/XPath.java  
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 jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java  
 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
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 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
 jar/org/apache/html/dom/HTMLIsIndexElementImpl.java  
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 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
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 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
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 \* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-

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jar/org/apache/xerces/impl/dtd/models/CMAny.java
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
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jar/org/apache/wml/dom/WMLBrElementImpl.java  
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 */
```

Found in path(s):

```
*/opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
```

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 */
```

```
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 *
 * then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
```

- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* **Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)],
- \* applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* **@return** The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)"
- \* configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* **@exception** `DOMException`
- \* `NOT_SUPPORTED_ERR`: Raised if the requested mode or schema type is
- \* not supported.

Found in path(s):

`/opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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/\*\*

\* used to check the 3 constraints against each complex type  
\* (should be each model group):  
\* Unique Particle

Attribution, Particle Derivation (Restriction),

\* Element Declarations Consistent.  
\*/

Found in path(s):

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-  
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\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java

\*

/opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java  
\*  
/opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java  
\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java  
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Found in path(s):

\* /opt/cola/permits/1026855996\_1611866310.39/0/xercesimpl-2-9-1-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java  
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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\". During validation against this schema, ambiguity would be created for those two particles.

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```
* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties  
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*/  
/**  
 * Checks if this content model has had its min/maxOccurs values reduced for  
 * purposes of speeding up UPA. If  
so, this content model should not be used  
 * for any purpose other than checking unique particle attribution  
 *  
 * @return a boolean that says whether this content has been compacted for UPA  
 */
```

Found in path(s):

```
* /opt/cola/permits/1026855996_1611866310.39/0/xercesimpl-2-9-1-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
```

# 1.198 vavr 0.10.2

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```
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\* /opt/ws\_local/PERMITS\_SQL/1035925682\_1589244620.81/0/groovy-servlet-2-5-0-sources-jar/groovy/servlet/package.html

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## 1.208 javax-servlet-api 2.5.0

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\* /opt/cola/permits/1038793138\_1675961441.3874598/0/com-springsource-javax-servlet-2-5-0-jar/javax/servlet/resources/j2ee\_web\_services\_client\_1\_1.xsd

\* /opt/cola/permits/1038793138\_1675961441.3874598/0/com-springsource-javax-servlet-2-5-0-jar/javax/servlet/resources/web-app\_2\_5.xsd

\* /opt/cola/permits/1038793138\_1675961441.3874598/0/com-springsource-javax-servlet-2-5-0-jar/javax/servlet/resources/j2ee\_web\_services\_1\_1.xsd

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## 1.209 bluebird 3.7.2

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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/classify/annotation/Classifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/SleepingBackOffPolicy.java  
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/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/NoBackOffPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/StatelessBackOffPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/classify/ClassifierSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/interceptor/MethodInvocationRecoverer.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/BackOffInterruptedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/BackOffContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryState.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/MapRetryContextCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/RetryContextCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/listener/RetryListenerSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/interceptor/NewMethodArgumentsIdentifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/ExhaustedRetryException.java

\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/classify/Classifier.java  
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/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/TimeoutRetryPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryPolicy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySimulation.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/RetryCacheCapacityExceededException.java  
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/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryException.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/NeverRetryPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/BackOffPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/DefaultRetryState.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/TerminatedRetryException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/Sleeper.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySynchronizationManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/ExceptionClassifierRetryPolicy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/CompositeRetryPolicy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/ObjectWaitSleeper.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/classify/PatternMatchingClassifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySimulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/SoftReferenceMapRetryContextCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/classify/BackToBackPatternClassifier.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-  
jar/org/springframework/retry/interceptor/RetryOperationsInterceptor.java  
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jar/org/springframework/retry/annotation/Backoff.java

\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-  
jar/org/springframework/retry/annotation/Recover.java

\*

/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-  
jar/org/springframework/retry/annotation/EnableRetry.java

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```
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/annotation/Retryable.java
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/backoff/ThreadWaitSleeper.java
*
/opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/annotation/RetryConfiguration.java
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/classify/util/SimpleMethodInvoker.java
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/interceptor/RetryInterceptorBuilder.java
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/interceptor/Retryable.java
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jar/org/springframework/retry/policy/SimpleRetryPolicy.java
* /opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/classify/SubclassClassifier.java
*
/opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
jar/org/springframework/classify/BinaryExceptionClassifier.java
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/MutableRetryStatistics.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/ExponentialAverageRetryStatistics.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/StatisticsRepository.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/DefaultStatisticsRepository.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/RetryStatisticsFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/DefaultRetryStatisticsFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/DefaultRetryStatistics.java  
\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/stats/StatisticsListener.java  
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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/CircuitBreakerRetryPolicy.java

\*

/opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/ExpressionRetryPolicy.java

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\* /opt/ws\_local/PERMITS\_SQL/1063935130\_1593103235.71/0/spring-retry-1-2-5-release-sources-

```
jar/org/springframework/classify/util/AnnotationMethodResolver.java
*
/opt/ws_local/PERMITS_SQL/1063935130_1593103235.71/0/spring-retry-1-2-5-release-sources-
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jar/org/springframework/retry/annotation/RecoverAnnotationRecoveryHandler.java
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/retry/Retry.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/retry/RetrySpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/retry/RetryBackoffSpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxRetryWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoRetryWhen.java

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/Metrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ConnectableFluxHide.java

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/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/scheduler/ReactorThreadFactory.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoUsingWhen.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ConnectableLift.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ParallelMergeOrdered.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoLiftFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxUsingWhen.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ConnectableLiftFuseable.java
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/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxMetricsFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxDoOnEachFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxMergeOrdered.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/Traces.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/GroupedLiftFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/GroupedLift.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/QueueDrainSubscriber.java
*
/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoDoOnEach.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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reactor.core.scheduler.ReactorBlockHoundIntegration

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoSingleMono.java

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/context/Context4.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/BlockingOptionalMonoSubscriber.java

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxIndexFuseable.java

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoExpand.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxDelaySequence.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxDeferWithContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoDeferWithContext.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ParallelDoOnEach.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/InternalFluxOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/OptimizableOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/InternalConnectableFluxOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java  
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/SourceProducer.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxLiftFuseable.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxMetrics.java
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- /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoBridges.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxFilterFuseable.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoProcessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCacheTime.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoExtensions.kt
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- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/NonBlocking.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxBufferPredicate.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxReplay.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoFunctions.kt
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxBufferWhen.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxConcatMap.java
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- /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxBufferBoundary.java
- \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/EmitterProcessor.java

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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoZip.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoMetrics.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/scheduler/SchedulerMetricDecorator.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxCombineLatest.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoCompletionStage.java
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/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ReplayProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/Mono.java
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxError.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoRunnable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxDematerialize.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/BufferOverflowStrategy.java  
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/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/SignalPeek.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/Disposables.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/GroupedFlux.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ParallelFluxOnAssembly.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/FluxMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/scheduler/ElasticScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/util/context/ContextN.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/MonoFlatMapMany.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/FluxRetryPredicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/MonoNameFuseable.java

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*
/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoTakeUntilOther.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxAutoConnect.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/util/function/Tuple3.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxRefCount.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxSubscribeOnCallable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/adapters/JdkFlowAdapter.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxRepeatWhen.java
*
/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoRepeatWhen.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoSingle.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/scheduler/WorkerTask.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxPeekFuseable.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxDoFinally.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/ParallelThen.java
*
/opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoPeek.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/MonoMap.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxFromMonoOperator.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxSample.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxName.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxDelaySubscription.java
* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-
jar/reactor/core/publisher/FluxSubscribeOn.java
*

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/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/Logger.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/Hooks.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/SchedulerTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/Schedulers.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoIgnorePublisher.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxOnBackpressureBufferStrategy.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/PeriodicSchedulerTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxTakeWhile.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoDematerialize.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/CoreSubscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoReduce.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoReduceSeed.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/function/Tuple7.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/context/Context.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxNever.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxTakeUntil.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/function/Tuple4.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxRetry.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/DelegateServiceScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoEmpty.java  
\*

/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoHasElements.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoFlattenIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/DrainUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxSourceFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxMerge.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxFirstEmitting.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoDoFinallyFuseable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxTake.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/PeriodicWorkerTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/SignalType.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoTimeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxMapSignal.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCallableOnAssembly.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoFilterFuseable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ParallelArraySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/function/Tuple5.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/ParallelScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCount.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoName.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/BlockingLastSubscriber.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoNext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-

jar/reactor/core/publisher/MonoRetry.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/FluxOnAssembly.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/Scannable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/util/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/FluxMergeSequential.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoLift.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoFromFluxOperator.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/FluxJust.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/scheduler/ExecutorServiceWorker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/FluxRefCountGrace.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/util/function/Tuples.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/BlockingMonoSubscriber.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoSupplier.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoSequenceEqual.java  
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 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/FluxMapFuseable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/ParallelFluxName.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/ParallelPeek.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoSourceFuseable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/UnicastProcessor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/ConnectableFluxOnAssembly.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoDelaySubscription.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoHide.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
 jar/reactor/core/publisher/MonoFromPublisher.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxTimeout.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoLog.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxMaterialize.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxSkipUntil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxDefer.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoSubscribeOnCallable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxRepeatPredicate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/SerializedSubscriber.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoAny.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/concurrent/Queues.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoIgnoreElement.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/context/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/function/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxSourceMonoFuseable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoMapFuseable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/ParallelRunOn.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/concurrent/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxFlatMap.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoRetryPredicate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/BlockingIterable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxZip.java  
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jar/reactor/core/publisher/FluxDistinctFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/util/concurrent/SpscLinkedListQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/ParallelConcatMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/FluxPublishOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-  
jar/reactor/core/publisher/FluxInterval.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/concurrent/SpscArrayQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/EventLoopProcessor.java

\*  
/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/WorkQueueProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/util/concurrent/WaitStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/CorePublisher.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/TopicProcessor.java

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\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxBufferTimeout.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxCreate.java

\*

/opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCollect.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoCreate.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/Flux.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/scheduler/BoundedElasticScheduler.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/FluxPublish.java

\* /opt/ws\_local/PERMITS\_SQL/1068232327\_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/MonoSink.java

## 1.213 netty-tcnative 2.0.9.Final

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\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/SniHostNameMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-

jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java

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\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/CertificateRequestedCallback.java

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\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/SSLContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/SSL.java  
\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/Buffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/Library.java

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\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/io/netty/internal/tcnative/CertificateVerifier.java

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\* /opt/ws\_local/PERMITS\_SQL/1068790237\_1594430319.78/0/netty-tcnative-2-0-9-final-sources-1-jar/META-INF/MANIFEST.MF

# 1.214 spring-framework 4.3.20.RELEASE

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```
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/serializer/Deserializer.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
*
/opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/serializer/Serializer.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/SpringVersion.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/util/PathMatcher.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/InfrastructureProxy.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/io/DescriptiveResource.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/io/WritableResource.java
*
/opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/util/ErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/task/SyncTaskExecutor.java
```

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/comparator/InvertibleComparator.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/comparator/NullSafeComparator.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/comparator/BooleanComparator.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/TaskRejectedException.java

\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/CommonsLogWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/ConstantException.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/style/StylerUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/TaskTimeoutException.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/AttributeAccessor.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java

\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/style/DefaultValueStyler.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/ExceptionDepthComparator.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/MultiValueMap.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java

\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/style/ToStringStyler.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/TaskExecutor.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-



jar/org/springframework/core/type/classreading/MetadataReaderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/SmartClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/util/comparator/ComparableComparator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/ParameterNameDiscoverer.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/io/ClassRelativeResourceLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/serializer/support/SerializationFailedException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/util/Log4jConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/lang/UsesSunHttpServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/cglib/SpringCglibInfo.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/type/filter/AspectJTypeFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/util/CompositeIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/util/ExceptionTypeFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/backoff/BackOffExecution.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/StaxUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/StaxStreamHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/NestedIOException.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/PropertiesPropertySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/lang/UsesJava8.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/CustomizableThreadCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/SerializationUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/backoff/BackOff.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/lang/UsesJava7.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java  
\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/MapPropertySource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/StandardEnvironment.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/SystemPropertyUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/DomUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/FieldVisitor.java  
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jar/org/springframework/asm/Label.java  
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jar/org/springframework/asm/Item.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/Frame.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/ClassReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/AnnotationVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/ModuleWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/Context.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/asm/MethodVisitor.java

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* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Edge.java
*
/opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Type.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/CurrentFrame.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/ModuleVisitor.java
*
/opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/ByteVector.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/AnnotationWriter.java
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- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/PatternMatchUtils.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/AnnotationMetadata.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/VfsResource.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/SynthesizedAnnotation.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/JdkVersion.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/comparator/InstanceComparator.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/AliasRegistry.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
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- /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StreamConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/SynthesizedAnnotationInvocationHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/IdGenerator.java



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/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/serializer/support/DeserializingConverter.java  
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jar/org/springframework/objenesis/SpringObjenesis.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
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jar/org/springframework/util/UpdateMessageDigestInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/type/MethodMetadata.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/Ordered.java  
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jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java  
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jar/org/springframework/core/io/InputStreamResource.java  
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jar/org/springframework/core/env/EnumerablePropertySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
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jar/org/springframework/core/convert/converter/Converter.java  
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jar/org/springframework/util/ResizableByteArrayOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
jar/org/springframework/core/convert/support/StringToUUIDConverter.java

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/opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
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jar/org/springframework/core/OverridingClassLoader.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-  
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 \*  
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 jar/org/springframework/core/env/Environment.java  
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/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/Constants.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/MutablePropertySources.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/filter/TypeFilter.java

\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/ContextResource.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/style/ValueStyler.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java

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\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java

\*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ConfigurableConversionService.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/PropertySources.java

\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/CommandLineArgs.java

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/AbstractEnvironment.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/DomContentHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/SimpleAliasRegistry.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
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- /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/BridgeMethodResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/TransformerUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/ClassUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
- \*

/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/XMLStreamWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/TypeDescriptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/StringUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/AbstractResource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/ReflectionUtils.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/GenericTypeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/ResolvableType.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/xml/StaxEventHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/MimeType.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/io/PathResource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/AttributeAccessorSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/support/ConversionUtils.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/util/MimeTypeUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-jar/org/springframework/core/convert/Property.java  
\* /opt/ws\_local/PERMITS\_SQL/1070667560\_1594726323.29/0/spring-core-4-3-20-release-sources-

```
jar/org/springframework/util/xml/XMLStreamReader.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/SerializableTypeWrapper.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/core/MethodParameter.java
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```
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```
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/TypePath.java
* /opt/ws_local/PERMITS_SQL/1070667560_1594726323.29/0/spring-core-4-3-20-release-sources-
jar/org/springframework/asm/TypeReference.java
```

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```
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jar/reactor/netty/udp/UdpServer.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/WebsocketClientSpecImpl.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpClientBootstrap.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/ConnectionObserver.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/channel/MonoSendMany.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/channel/AbortedException.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/WebsocketServerSpec.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/FutureMono.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpServerDoOn.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpClientDoOn.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpClientUnsecure.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpConnection.java
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\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpServerHandle.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpClientUnproxy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/client/HttpClientForm.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/client/HttpClientFinalizer.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/server/HttpServerTcpConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpServerSecure.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/server/HttpServerObserve.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/DisposableChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpClientSecure.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/channel/ChannelMetricsHandler.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpClientOperator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/HttpMetricsRecorder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/server/DefaultHttpServerRoutes.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/client/HttpClientMetricsHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpClientRunOn.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/tcp/TcpClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/resources/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/server/AccessLog.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/channel/FluxReceive.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/resources/PooledConnectionProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
 jar/reactor/netty/http/server/SimpleCompressionHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-

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jar/reactor/netty/http/websocket/WebsocketSpecImpl.java
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jar/reactor/netty/udp/UdpClientRunOn.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/resources/DefaultLoopEpoll.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpClientOperator.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpServerOperator.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/ReactorNetty.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpServerBind.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/Connection.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
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*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HttpServerConfiguration.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/ConnectionInfo.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/websocket/WebsocketSpec.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/resources/ConnectionProvider.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HttpServerOperator.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/package-info.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/Metrics.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpServer.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpClientBootstrap.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpServerBind.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpResponseDecoderSpec.java

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\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpServerDoOnConnection.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpClientDoOn.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/resources/DefaultLoop.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpServerUnsecure.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpResources.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpInbound.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/HttpRequestDecoderSpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/AccessLogHandlerH2.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/WebsocketFinalizer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/AccessLogHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/ProxyProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/resources/NewConnectionProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClientConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpServerDoOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClientConnect.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClientOnConnectMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/channel/ChannelOperationsHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClientOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/resources/DefaultLoopKQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/HttpServerHandle.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/HttpDecoderSpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-

jar/reactor/netty/http/websocket/WebsocketInbound.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/HttpProtocol.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/NettyInbound.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/HttpInfos.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/tcp/TcpClientObserve.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/ByteBufFlux.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientHeadersWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/udp/UdpClientObserve.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/UriEndpointFactory.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/tcp/TcpServerChannelGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientMetricsRecorder.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HttpServerMetricsHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/MonoSend.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HttpServerState.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/tcp/TcpClientProxy.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HttpServerRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/HttpResources.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/tcp/InetSocketAddressUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/UriEndpoint.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/ChannelOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/resources/ColocatedEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientCookieWhen.java

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*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HttpServer.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/channel/BootstrapHandlers.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/NettyPipeline.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HAProxyMessageReader.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/ChannelBindException.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HttpPredicate.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/RedirectClientException.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/package-info.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientResponse.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/UdpOperations.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientState.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/NettyOutbound.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/udp/package-info.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/WebsocketServerSpecImpl.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/tcp/TcpServerRunOn.java
*
/opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientCookie.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/HttpOperations.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientDoOnError.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientHeaders.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/HttpServerRoutes.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/server/MicrometerHttpServerMetricsRecorder.java
* /opt/ws_local/PERMITS_SQL/1070965854_1594813870.89/0/reactor-netty-0-9-7-release-sources-
jar/reactor/netty/http/client/HttpClientTcpConfig.java
*

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/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/ByteBufMono.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/Http2StreamBridgeHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/websocket/WebsocketOutbound.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/SslProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/WebsocketClientSpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/resources/DefaultLoopNativeDetector.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/channel/MicrometerChannelMetricsRecorder.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/HttpServerOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/client/HttpClientDoOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/resources/PooledConnectionProviderMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/HttpServerBind.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/MicrometerHttpMetricsRecorder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/WebsocketServerOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpClientConnect.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpResources.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpServerRunOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/http/server/HttpServerSecure.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/DisposableServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/udp/UdpOutbound.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-jar/reactor/netty/tcp/TcpServerObserve.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-

jar/reactor/netty/udp/UdpServerOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/MeterKey.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/udp/UdpServerObserve.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/resources/LoopResources.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/ProxyProtocolSupportType.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/AddressResolverGroupMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/ChannelMetricsRecorder.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientInfos.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/PrematureCloseException.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/udp/UdpServerBootstrap.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/channel/ByteBufAllocatorMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/MicrometerHttpClientMetricsRecorder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientSecure.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HttpTrafficHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/client/HttpClientFormEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HttpServerResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/resources/DefaultLoopResources.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/server/HAProxyMessageDetector.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/tcp/TcpUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070965854\_1594813870.89/0/reactor-netty-0-9-7-release-sources-  
jar/reactor/netty/http/Cookies.java

# 1.216 google-http-client 1.15.0-rc

## 1.216.1 Available under license :

No license file was found, but licenses were detected in source scan.

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingInputStream.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/StreamingContent.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteCountingOutputStream.java

\*

/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/javanet/MockURLConnection.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/FixedClock.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/EmptyContent.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonObjectParser.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/JsonWebSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonFactory.java

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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpEncoding.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingByteArrayOutputStream.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-

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jar/com/google/api/client/json/webtoken/JsonWebToken.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/IOUtils.java
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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*
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jar/com/google/api/client/util/Clock.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/javanet/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/GZipEncoding.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpEncodingStreamingContent.java
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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/TestableByteArrayInputStream.java

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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpBackOffIOExceptionHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/apache/MockHttpClient.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sets.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Joiner.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Maps.java

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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Beta.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Collections2.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpBackOffUnsuccessfulResponseHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Strings.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonParser.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/SecurityTestUtils.java

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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/SecurityUtils.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonGenerator.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/MockSleeper.java



\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Lists.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/MultipartContent.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sleeper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOffUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Objects.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Charsets.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpIOExceptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Throwables.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/package-info.java  
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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Preconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NanoClock.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/PemReader.java  
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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ExponentialBackOff.java

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/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayValueMap.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BasicAuthentication.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NullValue.java

\*

/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpStatusCodes.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonString.java

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jar/com/google/api/client/http/HttpRequestInitializer.java
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jar/com/google/api/client/http/xml/atom/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/ByteArrayContent.java
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/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/HttpTesting.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/AbstractInputStreamContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/Data.java
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jar/com/google/api/client/http/BackOffPolicy.java
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jar/com/google/api/client/http/UriTemplate.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/apache/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/xml/atom/Atom.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpExecuteInterceptor.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/DateTime.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/DataMap.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpResponseInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/MockLowLevelHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/CharEscapers.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/GenericJson.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/Key.java
*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/Escaper.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/Json.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/MockHttpTransport.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/xml/XmlObjectParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/rpc2/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/PercentEscaper.java
*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/xml/XmlHttpContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/javanet/NetHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/xml/XmlNamespaceDictionary.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/UnicodeEscaper.java
*

```

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/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/LogLevelHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/InputStreamContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpTransport.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/javanet/NetHttpTransport.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/CustomizeJsonParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/javanet/NetHttpResponse.java
*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpUnsuccessfulResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/GenericUrl.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/UrlEncodedParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/HttpResponse.java
*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/escape/Platform.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/ArrayMap.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/javanet/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/xml/atom/package-info.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/http/apache/ContentEntity.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/xml/atom/AbstractAtomFeedParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/JsonToken.java
*
/opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/MockHttpContent.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/json/JsonParser.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-

```

jar/com/google/api/client/json/JsonGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/xml/GenericXml.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/LogLevelHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/apache/ApacheHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/json/JsonHttpContent.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/xml/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/apache/ApacheHttpTransport.java  
\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-  
jar/com/google/api/client/http/package-info.java

## 1.217 sizeof-agent 1.0.1

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\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/BooleanTypedValue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/ParserContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/MethodResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/TypeLocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/ExpressionInvocationTargetException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/common/TemplateParserContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/ConstructorExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/Operation.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/MethodExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/MethodFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/TypeConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/TypeComparator.java  
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jar/org/springframework/expression/spel/ast/OpDivide.java  
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jar/org/springframework/expression/spel/ast/Selection.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpMinus.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpModulus.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-  
jar/org/springframework/expression/spel/ast/OpMultiply.java  
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* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/OpDec.java
*
/opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/Expression.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/standard/SpelCompiler.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ExpressionState.java
*
/opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/OpInc.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/AccessException.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
```

jar/org/springframework/expression/spel/support/ReflectionHelper.java

\*

/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/ast/OperatorInstanceof.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/support/StandardTypeConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/common/LiteralExpression.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/ast/CompoundExpression.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/ast/Projection.java

\*

/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/ast/OpAnd.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/OperatorOverloader.java

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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java

\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

jar/org/springframework/expression/spel/InternalParseException.java

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  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/standard/TokenKind.java
  - \*
  - /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/SpelParseException.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OpNE.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/FloatLiteral.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/ExpressionException.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/LongLiteral.java
  - \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/IntLiteral.java
  - \*
  - /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/ParseException.java
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- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/SpelCompilerMode.java
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- /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OpLT.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/RealLiteral.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/PropertyAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OpLE.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OpOr.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/VariableReference.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/standard/Token.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/InlineList.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/InlineMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/AstUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/SpelNode.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/TypedValue.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorNot.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/Identifier.java
- \* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

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jar/org/springframework/expression/spel/CompiledExpression.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
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/opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/Assign.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/OperatorBetween.java
*
/opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/Literal.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/Indexer.java
*
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/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/SpelEvaluationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/standard/Tokenizer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/EvaluationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/ValueRef.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/ConstructorReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/CodeFlow.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/Operator.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorMatches.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/FormatHelper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/Elvis.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/MethodReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/StandardEvaluationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/TypeReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/ast/FunctionReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072978489\_1595247651.25/0/spring-expression-4-3-20-release-sources-1-

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jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
jar/org/springframework/expression/spel/SpelMessage.java
*
/opt/ws_local/PERMITS_SQL/1072978489_1595247651.25/0/spring-expression-4-3-20-release-sources-1-
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## 1.219 spring-orm 4.3.20.RELEASE

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jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/hibernate3/HibernateCallback.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/jpa/JpaSystemException.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/hibernate4/HibernateTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/jpa/JpaDialect.java
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jar/org/springframework/orm/hibernate4/ConfigurableJtaPlatform.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/hibernate4/LocalSessionFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/hibernate3/LocalSessionFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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jar/org/springframework/orm/hibernate4/SpringFlushSynchronization.java
* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028550_1595254033.72/0/spring-orm-4-3-20-release-sources-1-
jar/org/springframework/orm/hibernate3/HibernateOperations.java
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\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-  
jar/org/springframework/orm/jpa/vendor/SpringHibernateEjbPersistenceProvider.java  
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/\*\*

\* Create a transactional EntityManager proxy for the given EntityManagerFactory.

\* @param emf the EntityManagerFactory to obtain EntityManagers from as needed

\* @param properties the properties to be passed into the

\* { @code createEntityManager } call (may be { @code null })

\* @param entityManagerInterfaces

the interfaces to be implemented by the

\* EntityManager. Allows the addition or specification of proprietary interfaces.

\* @return a shareable transactional EntityManager proxy

\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/hibernate3/HibernateQueryException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/hibernate3/LocalTransactionManagerLookup.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/jdo/JdoOptimisticLockingFailureException.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/jpa/EntityManagerHolder.java

\* /opt/ws\_local/PERMITS\_SQL/1073028550\_1595254033.72/0/spring-orm-4-3-20-release-sources-1-jar/org/springframework/orm/jdo/PersistenceManagerHolder.java

# 1.220 spring-aop 4.3.20.RELEASE

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 */
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/scope/ScopedObject.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapters/DefaultAdvisorAdapterRegistry.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/PointcutAdvisor.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/PoolingConfig.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
```

jar/org/springframework/aop/target/HotSwappableTargetSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/config/PointcutComponentDefinition.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/interceptor/DebugInterceptor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/framework/AopProxyFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/aspectj/AspectInstanceFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/config/AdviceEntry.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/support/AbstractPointcutAdvisor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/config/MethodLocatingFactoryBean.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/support/DefaultPointcutAdvisor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/DynamicIntroductionAdvice.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/AopInvocationException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/aspectj/AspectJProxyUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/IntroductionInfo.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/target/LazyInitTargetSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-  
 jar/org/springframework/aop/framework/AopConfigException.java

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*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/AopContext.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/MethodBeforeAdvice.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/AfterReturningAdvice.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/PointcutEntry.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/TruePointcut.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/AdvisorEntry.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/scope/DefaultScopedObject.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/IntroductionAdvisor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/AopProxy.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/dynamic/Refreshable.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/TrueClassFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/AbstractExpressionPointcut.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/Pointcut.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/target/EmptyTargetSource.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/target/SimpleBeanTargetSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/Advisor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/config/AopNamespaceHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/ClassFilters.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/ControlFlowPointcut.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/scope/ScopedProxyUtils.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/ComposablePointcut.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcut.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java

\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java

```

*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/ProxyFactoryBean.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/framework/AopProxyUtils.java
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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/target/CommonsPool2TargetSource.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/framework/Advised.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027926\_1595253997.27/0/spring-aop-4-3-20-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java  
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* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/aopalliance/aop/AspectException.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
*
/opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/aopalliance/intercept/ConstructorInvocation.java
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* /opt/ws_local/PERMITS_SQL/1073027926_1595253997.27/0/spring-aop-4-3-20-release-sources-1-
jar/org/springframework/aop/TargetSource.java
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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/LifecycleProcessor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/MBeanExportOperations.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jndi/JndiLocatorDelegate.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/expression/MethodBasedEvaluationContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/annotation/Schedules.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ComponentScan.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java

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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java

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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/EmbeddedValueResolverAware.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/Cache.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/config/TriggerTask.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/Primary.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/GenericApplicationContext.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/i18n/LocaleContextHolder.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/ assembler/MethodNameBasedMBeanInfoAssembler.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java

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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/annotation/Caching.java  
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 /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/LiveBeansView.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/DateFormatterRegistrar.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/CacheableOperation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java  
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 /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-

jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java  
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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/scripting/bsh/BshScriptFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/validation/AbstractPropertyBindingResult.java  
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jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/cache/interceptor/CachePutOperation.java  
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jar/org/springframework/context/expression/CachedExpressionEvaluator.java  
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jar/org/springframework/cache/interceptor/SimpleKey.java  
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jar/org/springframework/context/annotation/ImportRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/context/annotation/ConfigurationCondition.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/jndi/JndiPropertySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/context/support/ConversionServiceFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/scheduling/config/ScheduledTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/format/support/FormattingConversionService.java  
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jar/org/springframework/context/annotation/Import.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
jar/org/springframework/cache/interceptor/CacheEvictOperation.java  
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```

*/
/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative
 * to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
 * <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>
 * and <a href="http://bit.ly/TRIX2r">{@code MBeanFactory}</a>.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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jar/org/springframework/cache/CacheManager.java

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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/cache/config/CacheManagementConfigUtils.java

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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedNotification.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/CacheErrorHandler.java  
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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocation.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/support/CompositeCacheManager.java  
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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationResult.java  
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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/standard/DateTimeContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java

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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/AnnotationFormatterFactory.java

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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
*
* <p>The
{ @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
*
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
* { @link ComponentScan @ComponentScan } annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional } itself is not declared as
* { @link java.lang.annotation.Inherited
@Inherited }; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

```

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```

* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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jar/org/springframework/format/datetime/joda/DurationFormatter.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/ApplicationListener.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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jar/org/springframework/context/ApplicationEvent.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/jmx/access/ConnectorDelegate.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/ui/ExtendedModelMap.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-

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jar/org/springframework/context/support/StaticApplicationContext.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scripting/support/ResourceScriptSource.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scheduling/config/CronTask.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scheduling/config/IntervalTask.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/ImportSelector.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/Condition.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/ui/ModelMap.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-

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jar/org/springframework/context/annotation/ScopedProxyMode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/context/i18n/LocaleContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/instrument/classloading/jboss/JBossMCAdapter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java  
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 /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/cache/interceptor/KeyGenerator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java  
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 jar/org/springframework/context/annotation/ConfigurationMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/format/datetime/joda/LocalTimeParser.java  
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 jar/org/springframework/context/annotation/Description.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/context/annotation/FilterType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/context/annotation/Lazy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/scheduling/support/SimpleTriggerContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java  
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 /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/scripting/ScriptFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/context/expression/EnvironmentAccessor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java  
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 jar/org/springframework/scheduling/support/TaskUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java

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/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ProfileCondition.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java  
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\*/  
/\*\*  
\* Abstract the invocation of a cache operation.  
\*  
\* <p>Does not provide a way to transmit checked exceptions but  
\* provide a special exception that should be used to wrap any  
\* exception that was thrown by the underlying invocation.  
\* Callers are expected to handle this issue type specifically.  
\*  
\* @author Stephane Nicoll  
\* @since 4.1  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/TaskScheduler.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/config/ContextNamespaceHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/ui/context/ThemeSource.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/ui/context/Theme.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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- /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jndi/IndiObjectLocator.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-

jar/org/springframework/cache/support/SimpleValueWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/format/Parser.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-  
 jar/org/springframework/ui/context/support/DelegatingThemeSource.java  
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 jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/validation/ObjectError.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/validation/BeanPropertyBindingResult.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/jmx/support/JmxUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028723\_1595254109.1/0/spring-context-4-3-20-release-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java

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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/event/SmartApplicationListener.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/SmartLifecycle.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/annotation/PropertySource.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
*
/opt/ws_local/PERMITS_SQL/1073028723_1595254109.1/0/spring-context-4-3-20-release-sources-1-
jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java

```

# 1.222 spring-aspects 4.3.20.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/context/annotation/aspectj/SpringConfiguredConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/transaction/aspectj/JtaAnnotationTransactionAspect.aj  
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/opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/cache/aspectj/AnyThrow.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj  
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/opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/cache/aspectj/AnnotationCacheAspect.aj  
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\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/cache/aspectj/AspectJCCacheConfiguration.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj

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\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj  
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/opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj  
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\* /opt/ws\_local/PERMITS\_SQL/1073027464\_1595254215.39/0/spring-aspects-4-3-20-release-sources-1-jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java

## 1.223 spring-tx 4.3.20.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionalProxy.java  
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/opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/annotation/Propagation.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java  
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/opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java

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jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
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* /opt/ws_local/PERMITS_SQL/1073027884_1595253972.07/0/spring-tx-4-3-20-release-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1073027884_1595253972.07/0/spring-tx-4-3-20-release-sources-1-
jar/org/springframework/jca/work/DelegatingWork.java
* /opt/ws_local/PERMITS_SQL/1073027884_1595253972.07/0/spring-tx-4-3-20-release-sources-1-
jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/ws_local/PERMITS_SQL/1073027884_1595253972.07/0/spring-tx-4-3-20-release-sources-1-

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 \* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-  
 jar/org/springframework/transaction/support/ResourceTransactionManager.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1073027884\_1595253972.07/0/spring-tx-4-3-20-release-sources-1-  
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/support/BeanNameGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/parsing/ReaderEventListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/PropertyValuesEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/serviceLoader/ServiceLoaderFactoryBean.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java

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/opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/serviceLoader/ServiceListFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/access/el/SimpleSpringBeanELResolver.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/support/AutowiredCandidateResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/TypeConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/SimpleTypeConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/BeanInfoFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/config/TypedStringValue.java
- \* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/access/BeanFactoryReference.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/PropertyDescriptorUtils.java

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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/support/MethodOverride.java

\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java

\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-

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jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java  
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jar/org/springframework/beans/factory/access/el/SpringBeanELResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/SmartInitializingSingleton.java  
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jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java  
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jar/org/springframework/beans/factory/xml/XmlReaderContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
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jar/org/springframework/beans/factory/config/BeanExpressionContext.java

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* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
jar/org/springframework/beans/factory/parsing/BeanEntry.java
*
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/opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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jar/org/springframework/beans/ExtendedBeanInfo.java
* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
*
/opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
jar/org/springframework/beans/PropertyEditorRegistrySupport.java
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jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
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/opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
jar/org/springframework/beans/factory/annotation/Lookup.java
* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073028410_1595254201.88/0/spring-beans-4-3-20-release-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/ListableBeanFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073028410\_1595254201.88/0/spring-beans-4-3-20-release-sources-1-  
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java  
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jar/org/springframework/beans/propertyeditors/URLEditor.java  
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jar/org/springframework/beans/factory/config/Scope.java  
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jar/org/springframework/beans/factory/config/AbstractFactoryBean.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027565\_1595253782.91/0/spring-web-4-3-20-release-sources-1-jar/org/springframework/web/bind/annotation/ExceptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027565\_1595253782.91/0/spring-web-4-3-20-release-sources-1-jar/org/springframework/http/HttpEntity.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027565\_1595253782.91/0/spring-web-4-3-20-release-sources-1-jar/org/springframework/web/util/OpaqueUriComponents.java  
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/opt/ws\_local/PERMITS\_SQL/1073027565\_1595253782.91/0/spring-web-4-3-20-release-sources-1-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027565\_1595253782.91/0/spring-web-4-3-20-release-sources-1-jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java

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* /opt/ws_local/PERMITS_SQL/1073027565_1595253782.91/0/spring-web-4-3-20-release-sources-1-
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jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
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/**

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* {@link LobHandler} implementation for Oracle databases. Uses proprietary API

```



\* to create `{ @code oracle.sql.BLOB }` and `{ @code oracle.sql.CLOB }` instances, as necessary when working with Oracle's JDBC driver.

\* Note that this LobHandler requires Oracle JDBC driver 9i or higher!

\*

\* `<p>`While most databases are able to work with `{ @link DefaultLobHandler }`,

\* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn't accept large streams for PreparedStatement's corresponding setter methods. Therefore, you need to use a strategy like this LobHandler implementation, or upgrade to the Oracle 10g/11g driver (which still supports access to Oracle 9i databases).

\*

\* `<p><b>`NOTE: As of Oracle 10.2, `{ @link DefaultLobHandler }` should work equally well out of the box. On Oracle 11g, JDBC 4.0 based options such as `{ @link DefaultLobHandler#setStreamAsLob }` and `{ @link DefaultLobHandler#setCreateTemporaryLob }` are available as well, rendering this proprietary OracleLobHandler obsolete.`</b>`

\* Also, consider upgrading to a new driver even when accessing an older database.

\* See the `{ @link LobHandler }` interface javadoc for a summary of recommendations.

\*

\* `<p>`Needs to work on a native JDBC Connection, to be able to cast it to `{ @code oracle.jdbc.OracleConnection }`. If you pass in Connections from a connection pool (the usual case in a Java EE environment), you need to set an appropriate `{ @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor }` to allow for automatic retrieval of the underlying native JDBC Connection. LobHandler and NativeJdbcExtractor are separate concerns, therefore they are represented by separate strategy interfaces.

\*

\* `<p>`Coded via reflection to avoid dependencies on Oracle classes.

\* Even reads in Oracle constants via reflection because of different Oracle drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!

\* As this LobHandler initializes Oracle classes on instantiation, do not define this as eager-initializing singleton if you do not want to depend on the Oracle JAR being in the class path: use "lazy-init=true" to avoid this issue.

\*

\* @author Juergen Hoeller

\* @author Thomas Risberg

\* @since 04.12.2003

\* @see DefaultLobHandler

\* @see #setNativeJdbcExtractor

\* @deprecated in favor of `{ @link DefaultLobHandler }` for the Oracle 10g driver and higher. Consider using the 10g/11g driver even against an Oracle 9i database!

\* `{ @link DefaultLobHandler#setCreateTemporaryLob }` is the direct equivalent of this OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.

\* That said, in most cases, regular DefaultLobHandler setup will work fine as well.

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/lob/OracleLobHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/object/RdbmsOperation.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/JdbcTemplate.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/support/SqlLobValue.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionProxy.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/ParameterDisposer.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/JdbcOperations.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java

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jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/ConnectionHolder.java
*
/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/StatementCallback.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/SQLExceptionCodes.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/ConnectionCallback.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/PreparedStatementCallback.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/ConnectionHandle.java
*
/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/object/GenericSqlQuery.java
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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java  
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\*/  
/\*\*  
\* Implement this interface when parameters need to be customized based

```

* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never { @code null})
 */

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/ParameterMapper.java

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jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/object/MappingSqlQuery.java
*

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/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java

```

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
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jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
```

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
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*
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```
/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
```

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```

*/
/**
 * Strategy interface for translating between { @link SQLException SQLExceptions }
 * and Spring's data access strategy-agnostic { @link DataAccessException }
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

```

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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 */

```

```

/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b></p>: Needs to be invoked after the involved
 * PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

```

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```

* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/lob/LobCreator.java

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
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jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/object/BatchSqlUpdate.java
*
/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
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jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMax ValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMax ValueIncrementer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/ColumnMapRowMapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/KeyHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/incrementer/Db2LuwMax ValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/StatementCreatorUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/JdbcAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMax ValueIncrementer.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/SqlReturnResultSet.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/SqlParameter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
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/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/JdbcUtils.java
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jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
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jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
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jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
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*/
/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large Objects.
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
* {@link OracleLobHandler}; most other databases should be able to work

```

\*  
with the provided { @link DefaultLobHandler }.

\*  
\* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for  
\* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.  
\* LobCreators are typically instantiated for each statement execution or for  
\* each transaction; they are not thread-safe because they might track  
\* allocated database resources in order to free them after execution.

\*  
\* <p>Most databases/drivers should be able to work with { @link DefaultLobHandler },  
\* which by default delegates to JDBC's direct accessor methods, avoiding the  
\* { @code java.sql.Blob } and { @code java.sql.Clob } API completely.  
\* { @link DefaultLobHandler } can also be configured to access LOBs using  
\* { @code PreparedStatement.setBlob/setClob } (e.g. for PostgreSQL), through  
\* setting the { @link DefaultLobHandler#setWrapAsLob "wrapAsLob" } property.

\*  
\* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own  
\* proprietary BLOB/CLOB API, and  
additionally doesn't accept large streams for  
\* PreparedStatement's corresponding setter methods. Therefore, you need to use  
\* { @link OracleLobHandler } there, which uses Oracle's BLOB/CLOB API for both types  
\* of access. The Oracle 10g+ JDBC driver will work with { @link DefaultLobHandler }  
\* as well, with some limitations in terms of LOB sizes depending on DBMS setup;  
\* as of Oracle 11g (or actually, using the 11g driver even against older databases),  
\* there should be no need to use { @link OracleLobHandler } at all anymore.

\*  
\* <p>Of course, you need to declare different field types for each database.  
\* In Oracle, any binary content needs to go into a BLOB, and all character content  
\* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a  
\* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete  
\* portability, use a LobHandler for fields that might typically require LOBs on  
\* some database because of the field size (take Oracle's  
numbers as a guideline).

\*  
\* <p><b>Summarizing the recommended options (for actual LOB fields):</b>

\* <ul>  
\* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use { @link DefaultLobHandler },  
\* potentially with { @code streamAsLob=true } if your database driver requires that  
\* hint when populating a LOB field. Fall back to { @code createTemporaryLob=true }  
\* if you happen to run into LOB size limitations with your (Oracle) database setup.  
\* <li><b>Oracle 10g driver:</b> Use { @link DefaultLobHandler } with standard setup.  
\* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,  
\* DefaultLobHandler should work with standard setup out of the box. Alternatively,  
\* consider using the proprietary { @link OracleLobHandler } (see below).  
\* <li><b>Oracle 9i driver:</b> Use { @link OracleLobHandler } with a connection-pool-specific  
\* { @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor }.  
\* <li><b>PostgreSQL:</b> Configure { @link DefaultLobHandler }

```

with { @code wrapAsLob=true },
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain { @link DefaultLobHandler }.
* </ul>
*
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/support/lob/LobHandler.java

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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/LobRetrievalFailureException.java
*
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/ResultSetExtractor.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/C3P0NativeJdbcExtractor.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlObjectMappingHandler.java

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/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/object/SqlFunction.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-

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jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
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/opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073027450_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-
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jar/org/springframework/jdbc/SQLWarningException.java
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jar/org/springframework/jdbc/core/PreparedStatementCreator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/InvalidResultSetAccessException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java  
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 jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/object/SqlOperation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-  
 jar/org/springframework/jdbc/support/MetaDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java

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\* The classes in this package make JDBC easier to use and

\* reduce the likelihood of common errors. In particular, they:

\* <ul>

\* <li>Simplify error handling, avoiding the need for try/catch/finally

\* blocks in application code.

\* <li>Present exceptions to application code in a generic hierarchy of

\* unchecked exceptions, enabling applications to catch data access

\* exceptions without being dependent on JDBC, and to ignore fatal

\* exceptions there is no value in catching.

\* <li>Allow the implementation of error handling to be modified

\* to target different RDBMSes without introducing proprietary

\* dependencies into application code.

\* </ul>

\*

\* <p>This package and related packages are discussed in Chapter 9 of

\* <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and Development</a>

\* by Rod Johnson (Wrox, 2002).

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java

\*

/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java

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/opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java

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\* /opt/ws\_local/PERMITS\_SQL/1073027450\_1595253963.23/0/spring-jdbc-4-3-20-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java

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jar/org/springframework/jms/config/JmsListenerEndpoint.java

\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/core/JmsMessageOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/DefaultJcaListenerContainerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/JmsListenerContainerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/core/JmsOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/JmsListenerConfigUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/listener/endpoint/DefaultJmsActivationSpecFactory.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/support/converter/MarshallingMessageConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/AnnotationDrivenJmsBeanDefinitionParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/remoting/JmsInvokerClientInterceptor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/annotation/JmsBootstrapConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/listener/SimpleMessageListenerContainer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/support/JmsAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-

jar/org/springframework/jms/listener/MessageListenerContainer.java  
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jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-  
jar/org/springframework/jms/connection/CachedMessageProducer.java  
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jar/org/springframework/jms/listener/adaptor/JmsResponse.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/support/SimpleJmsHeaderMapper.java
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- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/AbstractListenerContainerParser.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/AbstractJmsListenerContainerFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/JmsListenerContainerParser.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/config/MethodJmsListenerEndpoint.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java
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- /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/support/JmsHeaderMapper.java
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- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/support/JmsMessageHeaderAccessor.java
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- /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/connection/SingleConnectionFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1073027580\_1595254133.12/0/spring-jms-4-3-20-release-sources-1-jar/org/springframework/jms/annotation/JmsListener.java

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* /opt/ws_local/PERMITS_SQL/1073027580_1595254133.12/0/spring-jms-4-3-20-release-sources-1-
jar/org/springframework/jms/listener/LocallyExposedJmsResourceHolder.java
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/cors/OkResponseHandler.java

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jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java  
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jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java  
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jar/io/netty/channel/rxtx/RxtxDeviceAddress.java  
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jar/io/netty/channel/oio/OioByteStreamChannel.java  
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jar/io/netty/channel/sctp/SctpChannelOption.java  
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jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameTypes.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ShortObjectMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2Connection.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2DataWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2EventAdapter.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ObjectUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2Error.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttQoS.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/LongObjectMap.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/client/Http2Client.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ShortCollections.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/Headers.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/Http2ExampleUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/CharObjectMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/package-info.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ByteObjectMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameAdapter.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ByteCollections.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FlowController.java  
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jar/io/netty/handler/codec/http2/Http2Headers.java  
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jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2Exception.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2LocalFlowController.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/collection/IntCollections.java  
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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2Stream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/collection/LongObjectHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java

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jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java  
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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/SearchProcessor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java  
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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codecs/spdy/SpdyHeadersFrame.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthScheme.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/Recycler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/ImmediateExecutor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksResponseType.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/Promise.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/DefaultThreadFactory.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/AbstractEventExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/udt/UdtServerChannelConfig.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/memcache/LastMemcacheContent.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheServerCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/EmptyByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeakException.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/Native.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/PlatformDependent0.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockProtocol.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/FutureListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/UdtChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/DefaultPromise.java

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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/Future.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ConcurrentSet.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ReferenceCountUtil.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/PromiseTask.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/util/internal/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cors/package-info.java
*
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jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/Version.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/ReferenceCounted.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/PendingWrite.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBufHolder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/AbstractReferenceCounted.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeak.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeakDetector.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
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jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/SctpEchoClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
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 jar/io/netty/handler/ssl/NotSslRecordException.java  
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 jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
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jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/uptime/UptimeClient.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/VoidChannelPromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/NetUtil.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/factorial/NumberEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/SlicedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/example/udt/echo/bytes/ByteEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/EventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockServerHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/socksproxy/SocksServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/qotm/QuoteOfTheMomentClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/ByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetServerHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/upload/HttpUploadServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/serialization/ClassResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/securechat/SecureChatClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/DefaultChannelPromise.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/MessageAggregator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/discard/DiscardClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socks/SocksResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/Signal.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpContentDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/ByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/JZlibEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/MultithreadEventLoopGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/DatagramChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/CorruptedFrameException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/AbstractChannelHandlerContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/SingleThreadEventExecutor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/oio/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerOne.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/telnet/TelnetClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/AbstractByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/DefaultEventLoopGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/AbstractByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpRequestEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/SucceededChannelFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/oio/AbstractOioByteChannel.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/group/CombinedIterator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/ByteBufUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/bootstrap/ServerBootstrap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/websocketx/server/WebSocketServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/worldclock/WorldClockServer.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/serialization/ReferenceMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/CompressionException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/udt/echo/rendezvous/Config.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/IllegalReferenceCountException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/EventLoopGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ServerChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/message/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/EventLoop.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/AttributeMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Attribute.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/logging/LogLevel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-



jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutException.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/stream/ChunkedStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/PoolArena.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/securechat/SecureChatClientHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/cors/HttpCorsServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/upload/HttpUploadServerInitializer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksCommonUtils.java

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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelMetadata.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/embedded/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultCookie.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelPipelineException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/AbstractConstant.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/securechat/SecureChatServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/securechat/SecureChatClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpObject.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/EventLoopException.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/snoop/HttpSnoopClient.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/SwappedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/TimerTask.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/bootstrap/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/factorial/BigIntegerDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/echo/EchoClientHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/factorial/FactorialServerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/DuplicatedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/logging/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/SocksMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/factorial/FactorialServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/server/WebSocketFrameHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/message/MsgEchoServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/socksproxy/RelayHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelOption.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/upload/HttpUploadClientHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/local/LocalAddress.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Timer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/snoop/HttpSnoopServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/oio/OioSctpChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/socksproxy/SocksServerUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/SctpEchoClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Constant.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/example/objectecho/ObjectEchoServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PooledByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/cors/HttpCorsServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/FileRegion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/nio/NioTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/file/HttpStaticFileServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/discard/DiscardClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/localecho/LocalEchoServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpContent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/objectecho/ObjectEchoClient.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/Timeout.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/file/HttpStaticFileServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/echo/EchoClient.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/securechat/SecureChatServerInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/localecho/LocalEchoClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/worldclock/WorldClockClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/worldclock/WorldClockClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/discard/DiscardServerHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/local/LocalChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksInitRequest.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/Channel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/ReadOnlyByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/socksproxy/SocksServerConnectHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/objectecho/ObjectEchoClientHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/timeout/TimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/udt/UdtChannelConfig.java  
\*



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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/localecho/LocalEcho.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpMethod.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PoolSubpage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/DatagramChannelConfig.java
*

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/Unpooled.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/upload/HttpUploadClientInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/string/StringDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/socksproxy/DirectClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/factorial/FactorialServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpResponseStatus.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/ChannelOutboundHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/udt/UdtMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socks/SocksAuthRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/logging/Slf4JLogger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/StringUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/socksproxy/SocksServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/example/discard/DiscardServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/server/WebSocketServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/echo/EchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockClientInitializer.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/portunification/PortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/uptime/UptimeClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/HashedWheelTimer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/telnet/TelnetClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/EncoderException.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/message/MsgEchoClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/file/FileServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/DefaultAttributeMap.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelFutureListener.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/timeout/IdleState.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunk.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/SctpEchoServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/logging/LoggingHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/channel/udt/nio/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/socksproxy/SocksServerHandler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/sctp/nio/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/FailedFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/portunification/PortUnificationServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/RecvByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/AbstractChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/SystemPropertyUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/concurrent/SucceededFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http/upload/HttpUploadServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelException.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/objectecho/ObjectEchoServerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerTwo.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/string/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/Cookie.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelPipeline.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolThreadCache.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/securechat/SecureChatServer.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/buffer/ByteBufInputStream.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/proxy/HexDumpProxyInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpClientCodec.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/udt/echo/rendezvousBytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
*

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/CompositeByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/websocket/StompVersion.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/haproxy/HAProxyHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketClientPageHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketChatServerInitializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/websocket/StompWebSocketChatServer.java



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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyClient.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompSubscription.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyServer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketProtocolCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompChatHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/SpdyClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompContentSubframe.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/server/SpdyOrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/package-info.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SniHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/client/SpdyFrameLogger.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Crc32.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlSpace.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/IovArray.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2SecurityUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateVerifier.java
*

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/NoopAddressResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/OpenSsl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/file/FileServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/mqtt/MqttMessageType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/DomainNameMapping.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpMessageUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/Bzip2Constants.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/OpenSslSessionContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/mqtt/MqttMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HTTPHeaderValues.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/spdy/server/SpdyServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlDocumentEnd.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/server/SpdyServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/SimpleNameResolver.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlComment.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlNamespace.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/StompSubframe.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslX509Certificate.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompConstants.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnAckMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlElementStart.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
*

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/JdkSslEngine.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/xml/XmlCharacters.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/DecoderResultProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/FastThreadLocal.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/PromiseAggregator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/NameResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/memcache/binary/MemcacheClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/SslUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/stomp/StompFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.  
 java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/xml/XmlAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlEntityReference.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttPubAckMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/server/Http2Server.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlCdata.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/AbstractEventLoop.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/spdy/server/SpdyServerHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/xml/XmlDocumentStart.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/stomp/StompClient.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompCommand.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/IntegerHolder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyCommand.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/StompClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/ResourceLeakHint.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/NativeLibraryLoader.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/HttpResponseClientHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/spdy/client/SpdyClientStreamIdHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/mqtt/MqttDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/HttpStatusClass.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/CleanerJava6.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBroker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/macos/DnsResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/internal/tcnative/SSLTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelHandlerMask.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/MaxCapacityQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/Hidden.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/macos/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/svm/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java

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jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2016 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
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 * http://www.apache.org/licenses/LICENSE-2.0
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/SessionTicketKey.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ResetFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/SmtpCommand.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2PingFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2Frame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/UnaryPromiseNotifier.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2SettingsFrame.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/PemX509Certificate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/DatagramPacketEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2StreamFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/ResourceLeakTracker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/DatagramPacketDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/MacAddressUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/DnsCache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2FrameCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/PemPrivateKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/smtp/DefaultSmtContent.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/RejectedExecutionHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/UnstableApi.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/BooleanSupplier.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/smtp/LastSmtpContent.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyTLV.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SelectStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/util/internal/ThrowableUtil.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/Http2ServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/redis/RedisClientHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/SocketUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/Limits.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/SmtpUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequests.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/DateFormatter.java

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*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/SmtpResponse.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2DataFrame.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/ConstantTimeUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/DuplexChannel.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/smtp/SmtpRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/PromiseNotificationUtil.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/DefaultSelectStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/NativeLibraryUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/SocketWritableByteChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueEventArray.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/smtp/SmtpContent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueDatagramChannel.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/CodecOutputList.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/ssl/PemValue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/Native.java  
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 jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/NoopDnsCache.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/AcceptFilter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/PromiseCombiner.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueChannelOption.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
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 jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
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 jar/io/netty/util/internal/logging/Log4J2Logger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/DomainNameMappingBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/PeerCredentials.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2FrameStreamException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsPtrRecord.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/ChannelOutboundInvoker.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/IntSupplier.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
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jar/io/netty/channel/kqueue/BsdSocket.java
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jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersFrame.java
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/util/internal/logging/JdkLogger.java

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/logging/CommonsLogger.java

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jar/io/netty/util/internal/logging/Log4JLogger.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/logging/InternalLogger.java

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\* Utility class for { @link ByteBuf } that encodes and decodes to and from

\* [Base64](http://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\*

The encoding and decoding algorithm in this class has been derived from

\* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)

\* Base64 Encoder/Decoder</a>.

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

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jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-

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jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedListQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*

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/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedListNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedListAtomicQueue.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/Cleaner.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/ThreadPoolLocalRunnable.java  
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 */
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserverFactory.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/PriorityQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/LongAdderCounter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/uptime/UptimeServerHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java  
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 jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/ocsp/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/Conscrypt.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2UnknownFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/UncheckedBooleanSupplier.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java  
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 jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
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 jar/io/netty/util/internal/ObjectCleaner.java  
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 jar/io/netty/resolver/HostsFileEntries.java  
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 jar/io/netty/channel/internal/ChannelUtils.java  
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 jar/io/netty/handler/ssl/SniCompletionEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/Http2StreamChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/ByteBufAllocatorMetric.java  
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 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java  
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 jar/io/netty/handler/ssl/OptionalSslHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java  
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 jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java  
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 jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java  
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 jar/io/netty/util/internal/ReflectionUtil.java  
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 jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/EmptyPriorityQueue.java  
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 jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java  
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 jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
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 jar/io/netty/channel/PendingBytesTracker.java  
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 jar/io/netty/buffer/PooledByteBufAllocatorMetric.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/SuppressForbidden.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/SslCompletionEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsCacheEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/NettyRuntime.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/uptime/UptimeServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-



jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java

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jar/io/netty/handler/codec/redis/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/RedisMessageType.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/IntegerRedisMessage.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/RedisCodecUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/ErrorRedisMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/RedisMessagePool.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/example/redis/RedisClient.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/redis/BulkStringRedisContent.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/ArrayRedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisConstants.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java

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\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspClientExample.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/Digester.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspServerExample.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java

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jar/io/netty/util/internal/logging/FormattingTuple.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/logging/MessageFormatter.java

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jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java

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jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
```

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpMessage.java
```

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannel.java
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/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
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* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.
*
* 

### Sub-types


* 

{ @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:


* 


* - { @link ChannelInboundHandler } to handle inbound I/O events, and

* - { @link ChannelOutboundHandler } to handle outbound I/O operations.


* 

```

```

* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }

```

```
* }
* ...
* }
* </pre>
```

\* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&{ @link Channel}&gt; {
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use { @link AttributeKey}s which is provided by { @link ChannelHandlerContext}:

```
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&Message&gt; {
*     private final { @link AttributeKey}&lt;&{ @link Boolean}&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;&{ @link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* }
```



```

*     }
*   }
*   ...
* }
* </pre>
* Now that the state
of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&{ @link Channel}&gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   { @code @Override}
*   public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/ChannelHandler.java
```

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```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/ResourcesUtil.java
```

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
```

```
*
```

```
/* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/ByteProcessorUtils.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
```

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```

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*
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/ThreadLocalRandom.java
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- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/AddressResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/HostsFileParser.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollMode.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java

```

*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksPortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/InetAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/v5/Socks5AddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/http2/tiles/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannel.java

```

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2HandlerBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/CookieUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/Launcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/SslContextBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/pool/ChannelPool.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/pool/AbstractChannelPoolHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsRecordType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/TcpMd5Util.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/HttpServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/UnpooledSlicedByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DatagramDnsQuery.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/UnsafeByteBufUtil.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/ThreadProperties.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/ImageCache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/handler/codec/dns/DnsResponseCode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/DefaultNameResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsMessageUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/DnsNameResolverException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/ssl/ClientAuth.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/pool/ChannelHealthChecker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/DefaultCookie.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/Html.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/ServerDomainSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/PoolSubpageMetric.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsQuery.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/EpollEventArray.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/internal/PriorityQueueNode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/dns/DnsNameResolverBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DatagramDnsResponse.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/FallbackRequestHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/util/HashingStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/cookie/Cookie.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/DomainSocketAddress.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/dns/DnsRawRecord.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/DomainSocketChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/CombinedHttpHeaders.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/resolver/InetSocketAddressResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/example/http2/tiles/Http1RequestHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/AbstractEpollServerChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/pool/SimpleChannelPool.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/handler/codec/http/EmptyHttpHeaders.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
 jar/io/netty/channel/unix/DomainSocketReadMode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-



jar/io/netty/handler/codec/dns/DefaultDnsQuery.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/buffer/PoolArenaMetric.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/DnsQuestion.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/unix/DomainSocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/resolver/HostsFileEntriesResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/unix/Errors.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/rtsp/RtspEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/pool/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/http/CookieUtil.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/DnsOpCode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/AsyncMapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/pool/ChannelPoolMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/example/http2/tiles/Http2Server.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/resolver/AbstractAddressResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/AbstractDnsMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/LongCounter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/channel/unix/DatagramSocketAddress.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunkMetric.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/DomainMappingBuilder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoServer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/Socket.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/tiles/Http2RequestHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-

jar/io/netty/resolver/CompositeNameResolver.java

\*

/opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

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\*/

/\*\*

\* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the { @code TCP\_QUICKACK } option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP\_QUICKACK</a>

\* for more details.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/HttpConversionUtil.java
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```

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* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
```

```
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
```

<p>

```
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

\*  
 \* The value of the length field in this example is `<tt>12 (0x0C)</tt>` which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
```

\*  
 \* `<h3>2 bytes length field at offset 0, strip header</h3>`  
 \*

\* Because we can get the length of the content by calling  
 \* `{ @link ByteBuf#readableBytes() }`, you might want to strip the length  
 \* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we  
 \* specified `<tt>2</tt>`, that is same with the length of the length field, to  
 \* strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
```

\*  
 \* `<h3>2 bytes length field at offset 0, do not strip header, the length field  
 * represents the length of the whole message</h3>`  
 \*

\* In most cases, the length field represents the length of the message body  
 \* only, as shown in the previous examples. However, in some protocols, the  
 \* length field represents the length of the whole message, including the  
 \* message header. In such a case, we specify a non-zero  
 \* `<tt>lengthAdjustment</tt>`. Because the length value in this example message

\* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`  
 \* as `<tt>lengthAdjustment</tt>` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
```

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
```

```
* </pre>
```

\* `<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>`

\* The following message is a simple variation of the first example. An extra  
 \* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero  
 \* again because the decoder always takes the length of the prepended data into  
 \* account during frame length calculation.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
```

\* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)

```
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   |   |
  0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
```

```
* </pre>
```

\* `<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>`

\* This is an advanced example that shows the case where there is an extra  
 \* header between the length field and the message body. You have to specify a  
 \* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra  
 \* header into the frame length calculation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
```

```

* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
\* strip the first header field and the length field</h3>

\* This is a combination of all the examples above. There are the prepended  
\* header before the length field and the extra header after the length field.  
\* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra  
\* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero  
\* <tt>initialBytesToStrip</tt> to strip the length field and the prepended  
\* header from the frame. If you don't want to strip the prepended header, you  
\* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

```

```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
\* strip the first header field and the length field, the length field  
\* represents the length of the whole message</h3>

\* Let's give another twist to the previous example. The only difference from  
\* the previous example is that the length field represents the length of the  
\* whole message instead of the message body, just like the third example.  
\* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.  
\* Please note that we don't need to take the length of HDR2 into account  
\* because  
the length field already includes the whole header length.

```

* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

```

```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/sctp/package-info.java
*

```

```

/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

```

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

```

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtProvider.java

```

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java

```

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

```

```

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/UdtChannel.java

```



```
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
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```

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```

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
- \*

- /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
- \* /opt/ws\_local/PERMITS\_SQL/1073709946\_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

```

*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/internal/tcnative/CertificateCallback.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java
*
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/unix/Buffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/Cache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
*

```

```
/opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/resolver/dns/DnsAddressResolveContext.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/resolver/dns/DefaultDnsCnameCache.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/resolver/dns/NoopDnsCnameCache.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/util/internal/SuppressJava6Requirement.java  
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-  
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
```

## 1.229 lodash.restparam 3.6.1

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* Build: `lodash modern modularize exports="npm" -o .`  
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```

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```
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g4b84b80-tar-gz/fis-components-lodash.restparam-3692f6f/index.js
```

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```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1078202442\_1597270786.77/0/fis-components-lodash-getnative-3-9-1-0-g99a6587-tar-gz/fis-components-lodash.\_getnative-20042e8/index.js

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## 1.233 Iodash.keys 3.1.2

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\* Iodash 3.1.2 (Custom Build) <<https://iodash.com/>>

\* Build: `Iodash modern modularize exports="npm" -o ./`

```

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*/
/**
* Creates an array of the own enumerable property names of `object`.
*
* Note: Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/6.0/#sec-object.keys)
* for more details.
*
* @static
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
*
* _keys(new Foo);
* // => ['a',
* 'b'] (iteration order is not guaranteed)
*
* _keys('hi');
* // => ['0', '1']
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1078269328_1597281956.57/0/fis-components-lodash-keys-3-1-2-0-gc47407a-tar-
gz/fis-components-lodash.keys-9efd785/index.js

```

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# lodash v4.5.1

The [lodash](https://lodash.com/) library exported as a [UMD](https://github.com/umdjs/umd) module.

Generated using [lodash-cli](https://www.npmjs.com/package/lodash-cli):

```

```bash
$ npm run build
$ lodash -o ./dist/lodash.js
$ lodash core -o ./dist/lodash.core.js

```

...

## ## Community

[![Gitter](https://badges.gitter.im/lodash/lodash.svg)](https://gitter.im/lodash/lodash)

## ## Documentation

- \* [API Documentation](https://lodash.com/docs)
- \* [FP Guide](https://github.com/lodash/lodash/wiki/FP-Guide)

## ## Download

Lodash is released under the [MIT license](https://raw.githubusercontent.com/lodash/lodash/4.5.1/LICENSE) & supports [modern environments](#support).<br>

Review the [build differences](https://github.com/lodash/lodash/wiki/build-differences) & pick one thatâ€™s right for you.

- \* [Core build](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.core.js) ([~4 kB gzipped](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.core.min.js))
- \* [Full build](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.js) ([~21 kB gzipped](https://raw.githubusercontent.com/lodash/lodash/4.5.1/dist/lodash.min.js))
- \* [CDN copies](https://www.jsdelivr.com/projects/lodash)

## ## Why Lodash?

Lodash makes JavaScript easier by taking the hassle out of working with arrays,<br> numbers, objects, strings, etc. Lodashâ€™s modular methods are great for:

- \* Iterating arrays, objects, & strings
- \* Manipulating & testing values
- \* Creating composite functions

## ## Module Formats

Lodash is available in a [variety of builds](https://lodash.com/custom-builds) & module formats.

- \* [lodash](https://www.npmjs.com/package/lodash) & [per method packages](https://www.npmjs.com/browse/keyword/lodash-modularized)
- \* [lodash-amd](https://www.npmjs.com/package/lodash-amd)
- \* [lodash-es](https://www.npmjs.com/package/lodash-es) & [babel-plugin-lodash](https://www.npmjs.com/package/babel-plugin-lodash)
- \* [lodash/fp](https://github.com/lodash/lodash/tree/4.5.1-npm/fp)

## ## Further Reading

- \* [Contributing](https://github.com/lodash/lodash/blob/4.5.1/.github/CONTRIBUTING.md)
- \* [Release Notes](https://github.com/lodash/lodash/releases/tag/4.0.0)



\* [Wiki (Changelog, Roadmap, etc.)](https://github.com/lodash/lodash/wiki)

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1078269328\_1597281956.57/0/fis-components-lodash-keys-3-1-2-0-gc47407a-tar-gz/fis-components-lodash.keys-9efd785/README.md

# 1.234 lodash.isarguments 3.1.0

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/\*\*

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\* Build: `Iodash modern modularize exports="npm" -o ./`

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1078269300\_1597282637.87/0/fis-components-lodash-isiterateecall-3-0-9-0-g7360657-tar-gz/fis-components-lodash.\_isiterateecall-7f1d9ce/index.js

## 1.237 Iodash-templatesettings 3.1.1

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## 1.239 lodash.isarray 3.0.4

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```
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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078269711_1597282742.91/0/fis-components-lodash-isarray-3-0-4-0-gbfe7f4f-
tar-gz/fis-components-lodash.isarray-e18427d/index.js
```

## 1.240 lodash-template 3.6.2

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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078269486_1597282921.59/0/fis-components-lodash-basecopy-3-0-1-0-gf3b51bf-tar-gz/fis-components-lodash._basecopy-8843e24/index.js
```

# 1.244 Iodash-reevaluate 3.0.0

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## 1.246 Iodash.get 4.4.2

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/AbstractCopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/CopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/assertions/Assertions.java
```

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonRegularExpression.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonNullCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonDocumentWrapperCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonInt32Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/UuidRepresentation.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/FloatCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/UuidHelper.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/ObjectIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonStringBuffer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonDocumentWrapper.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
```

```

jar/org/bson/RawBsonDocument.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/CodeWScope.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/NoOpFieldNameValidator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/DocumentCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PojoCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellObjectIdConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/DiscriminatorLookup.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/AbstractBsonWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonBinaryReader.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BSONObject.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/configuration/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertySerialization.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonStringConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/CodecCache.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/LazyBSONObject.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BasicBSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BSONEncoder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonTypeCodecMap.java

```

```

*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/package-
info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonRegularExpressionCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/LazyMissingCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellTimestampConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/Code.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/package-
info.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BasicBSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonDoubleCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/Base64.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonMinKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/DecoderContext.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonStreamBuffer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/UuidCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/MinKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyMetadata.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/io/BsonInputMark.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-

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jar/org/bson/types/Binary.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/StringCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonBinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BSONCallbackAdapter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonJavaScriptCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/SymbolCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/ComputingMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyModel.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/configuration/CodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonScanner.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/package-
info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/ObjectId.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/util/package-
info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/EmptyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellMaxKeyConverter.java

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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/LazyCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/ByteBuf.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ShellBinaryConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecConfigurationException.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoBuilderHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonDocumentCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonDBPointerCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/FieldNameValidator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ClassModel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/Transformer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonJavaScriptWithScope.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ObjectIdCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/Logger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/Decimal128Codec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BigDecimalCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonTypeClassMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BsonOutput.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/SLF4JLogger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonInt32Converter.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/conversions/Bson.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-

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jar/org/bson/LazyBSONCallback.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonInt32.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonDocument.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/RawBsonValueHelper.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/CreatorExecutable.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonTimestamp.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/Convention.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/io/BasicOutputBuffer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonBuffer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonMaximumSizeExceededException.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyAccessor.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/ByteArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/conversions/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/MapCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/StrictCharacterStreamJsonWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellDateTimeConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonBinary.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-

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jar/org/bson/json/ShellMinKeyConverter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/AtomicLongCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonValueCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/DoubleCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonObjectIdCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/LazyBSONDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/LazyBSONList.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonDecimal128Codec.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/json/ExtendedJsonUndefinedConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/PropertyAccessorImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/json/JsonNullConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/BsonUndefined.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonInt32Codec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/BsonDbPointer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/util/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/types/BSONTimestamp.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/LongCodec.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/MapCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/BSONException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/BsonNumber.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/Decoder.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/Document.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecRegistries.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonBooleanConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/AtomicIntegerCodec.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonJavaScriptConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/DateTimeFormatter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/MinKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BasicBSONCallback.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/ByteBufferBsonInput.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonDouble.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/IterableCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/UuidCodecProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/UuidCodecHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/assertions/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonDateTime.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/CollectibleCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonTokenType.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/MaxKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonString.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ShellRegularExpressionConverter.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/Conventions.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonType.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonMaxKey.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/BasicBSONList.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/Encoder.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonMinKey.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/NumberCodecHelper.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonDocumentWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonMaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/EncoderContext.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonReader.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonBinaryConverter.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BSON.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/ShortCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonSymbolCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonToken.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BSONDecoder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/CodecRegistryHelper.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/DateCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonSerializationException.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-

```

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jar/org/bson/BsonContextType.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonReaderMark.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/CodeWithScopeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/CharacterCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BasicBSONObject.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonBoolean.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonArray.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ClassModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonParseException.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/ClassMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/MaxKeyCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellUndefinedConverter.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonBinaryWriterSettings.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/RawBsonDocumentCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonTimestampCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/BsonId.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/IntegerCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/Decimal128.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PojoCodecProvider.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonDecimal128Converter.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonReader.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonNull.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonBinarySubType.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonInvalidOperationException.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonJavaScript.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/Symbol.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonSymbol.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/RawBsonArray.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/configuration/CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/PropertyModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/PatternCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ExtendedJsonDateTimeConverter.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/ClassAncestry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/StrictJsonWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/IterableCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/DocumentCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-

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jar/org/bson/diagnostics/Loggers.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonInt64Codec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/ProvidersCodecRegistry.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/ShellDecimal128Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/ByteCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonDocumentReader.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/Optional.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/internal/ChildCodecRegistry.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/io/BsonInput.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonElement.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonStringCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/Bits.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonSymbolConverter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/StringRangeSet.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BinaryCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonInt64.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BSONCallback.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonDecimal128.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/InstanceCreator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/AtomicBooleanCodec.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/types/CodeWithScope.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/ValueCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/json/JsonMode.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/TypeParameterMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonBinaryWriter.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/TypeData.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/CodeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/io/OutputBuffer.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/diagnostics/JULLogger.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/diagnostics/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/StringUtils.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/AbstractBsonReader.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonValue.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/ByteBufNIO.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonObjectId.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/package-
info.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/Codec.java
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/IdGenerators.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/IdGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/IdPropertyModelHolder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-  
jar/org/bson/codecs/BsonCodecProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-



jar/org/bson/internal/UnsignedLongs.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
*
/opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
```

## 1.249 mongodb-driver 3.12.4

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- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterables.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionClock.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterableFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ClientSession.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/TransactionBody.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ForEachHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8FindIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8MongoIterableFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java

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 */
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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/util/JSONCallback.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/MongoClientImpl.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/MapReduceOutput.java
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/opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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jar/com/mongodb/MongoClient.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/model/DBCcollectionCountOptions.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/model/DBCcollectionUpdateOptions.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/BulkWriteException.java
*
/opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/MongoClientDelegate.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/WriteResult.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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jar/com/mongodb/InsertOptions.java
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/Mongo.java
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jar/com/mongodb/MongoOptions.java
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jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
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jar/com/mongodb/MongoCursorAdapter.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/util/AbstractObjectSerializer.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/ParallelScanOptions.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/MongoIterableImpl.java
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 \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-  
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 jar/com/mongodb/UpdateRequest.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-  
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/ReplaceRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/SimpleMongoClients.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/DBEncoderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java  
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/opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/gridfs/GridFSBuckets.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/WriteRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CryptConnection.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/ReplicaSetStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/CryptBinding.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/CommandResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/UnacknowledgedBulkWriteResult.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/model/DBCcollectionDistinctOptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/ChangeStreamIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/jndi/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/util/JSON.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/util/ObjectSerializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/SimpleMongoClient.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/DBAddress.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/MapReduceIterable.java



```

*
/opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/KeyRetriever.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/vault/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/AggregateIterable.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/MongoMappingCursor.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/DBDecoderAdapter.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/vault/ClientEncryption.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/MongoClient.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/DB.java
*
/opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/util/ClassMapBasedObjectSerializer.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/DBEncoderFactoryAdapter.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/BulkWriteOperation.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/DBEncoder.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/LazyDBList.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/gridfs/package-info.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/LazyDBDecoder.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/model/DBCcollectionRemoveOptions.java
*
/opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/gridfs/CLI.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/LazyDBEncoder.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/DBCallbackFactory.java
* /opt/ws_local/PERMITS_SQL/1084247322_1598436419.43/0/mongodb-driver-3-12-4-sources-
jar/com/mongodb/client/internal/MongoCollectionImpl.java

```

# 1.250 mongodb-driver-core 3.12.4

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```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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```
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jar/com/mongodb/client/model/AggregationLevel.java
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 * https://github.com/marianobarrios/tls-channel
 */
```

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```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
```

```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
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jar/com/mongodb/internal/authentication/SaslPrep.java
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/AsyncConnection.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/UsageTrackingInternalConnection.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/FsyncUnlockOperation.java

\*

/\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/WriteProtocol.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoClientException.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterType.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitorFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/async/AsyncAggregateResponseBatchCursor.java

\*

/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/connection/SnappyCompressor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/operation/BsonDocumentWrapperHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/connection/netty/NettyStream.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/event/CommandSucceededEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/InsertManyOptions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 jar/com/mongodb/WriteError.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/ValidationAction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/WriteConcernResult.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/BucketGranularity.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/operation/CommandResultArrayCodec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/operation/AggregateOperation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-

jar/com/mongodb/event/CommandFailedEvent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/async/SingleResultCallback.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/connection/DefaultClusterableServerFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/bulk/InsertRequest.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/FindOneAndReplaceOptions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \*  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/operation/AsyncQueryBatchCursor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/connection/ClusterConnectionMode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/connection/Authenticator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/connection/ConnectionId.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/result/DeleteResult.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/internal/connection/ZlibCompressor.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/client/model/ReplaceOneModel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
 jar/com/mongodb/Tag.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoQueryException.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DecimalFormatHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoSocketWriteException.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/IndexMap.java

\*

/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/client/model/CountStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/Time.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/management/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/SocketSettings.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java

\*

/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/Field.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/Compressor.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/CommandResultBaseCallback.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/selector/PrimaryServerSelector.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ClusterDescription.java

\*

/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/changestream/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/DefaultAuthenticator.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/ReadOperation.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/BucketAutoOptions.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-



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jar/com/mongodb/client/model/MergeOptions.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/binding/AsyncClusterBinding.java
*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/operation/UpdateUserOperation.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/operation/FindAndModifyHelper.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/ExplainVerbosity.java

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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/MongoGridFSException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/operation/ExplainHelper.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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*
/opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/ClientSessionOptions.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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*
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/MongoSecurityException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/dns/DnsResolver.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-

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jar/com/mongodb/binding/AsyncConnectionSource.java  
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/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/connection/CompressedHeader.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/operation/ListDatabasesOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/DBRef.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ConcurrentPool.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/result/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/bulk/UpdateRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ClusterableServerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/client/model/FindOptions.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/DBObjectCodecProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/connection/ServerVersion.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/binding/AsyncReadWriteBinding.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/CursorType.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoSocketOpenException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/HexUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/management/MBeanServer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/MongoCommandException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-

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jar/com/mongodb/MongoChangeStreamException.java
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/BasicDBList.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/MongoCompressor.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
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 jar/com/mongodb/operation/DropDatabaseOperation.java  
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jar/com/mongodb/ClientEncryptionSettings.java
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/Immutable.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommitTransactionOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNull.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/ServerVersionHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNullApi.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/TransactionOperation.java

\*  
/opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/TransactionOptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/Nullable.java

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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/annotations/Beta.java

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*/
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* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/
*/
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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 *
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 * https://github.com/marianobarrios/tls-channel
 */
/**
 * Writes a sequence of bytesProduced to this channel from a subsequence of the

```





```

*       which bytesProduced are to be transferred; must be non-negative and no
*       larger than <tt>dsts.length</tt>
* @param length The maximum number of buffers to be accessed; must be
*       non-negative and no larger than <tt>dsts.length</tt>
*       &nbsp;   &nbsp;  <tt>offset</tt>
* @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
* reached end-of-stream; contrary to the behavior specified in
* { @link ByteChannel}, this method never returns 0, but throws
* { @link WouldBlockException}
* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
*       <tt>length</tt> parameters do not hold
* @throws WouldBlockException     if the channel is in non-blocking mode and the IO operation
*       cannot be completed immediately
* @throws NeedsTaskException      if the channel is not configured to run tasks automatically
*       and a task needs to be executed to complete the operation
* @throws SSLException            if the { @link SSLEngine} throws a SSLException
* @throws IOException             if the underlying channel throws an IOException
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java

```

# 1.251 colors.js 1.4.0

## 1.251.1 Available under license :

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- Copyright (c) Marak Squires

Additional Functionality

- Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

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# 1.252 spring-web-mvc 4.3.20.RELEASE

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```
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
*
/opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
*
```

/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateView.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerExceptionHandlerResolver.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsMultiFormatView.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/ViewRendererServlet.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractExcelView.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/NoHandlerFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/ParamTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-

jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/resource/EncodedResource.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/FlashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsxView.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/support/RequestContextUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/ServletForwardingController.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/resource/VersionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/resource/TransformedResource.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/tags/TransformTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-  
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-

jar/org/springframework/web/servlet/tags/ArgumentTag.java

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\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/HandlerAdapter.java

\*

/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/ThemeResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractJExcelView.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityView.java

\*

/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/support/JstUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/ThemeTag.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java

\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/BindTag.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/LocaleContextResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java  
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\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java  
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\* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1088475779\_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/RedirectView.java
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```
/**
```

```
* XSLT-driven View that allows for response context to be rendered as the
```

```
* result of an XSLT transformation.
```

```
*
```

```
* <p>The XSLT Source object is supplied as a parameter in the model and then
```

```
* { @link #locateSource detected } during response rendering. Users can either specify
```

```
* a specific entry in the
```

```
model via the { @link #setSourceKey sourceKey } property or
```

```
* have Spring locate the Source object. This class also provides basic conversion
```

```
* of objects into Source implementations. See { @link #getSourceTypes() here }
```

```
* for more details.
```

```
*
```

```
* <p>All model parameters are passed to the XSLT Transformer as parameters.
```

```
* In addition the user can configure { @link #setOutputProperties output properties }
```

```
* to be passed to the Transformer.
```

```
*
```

```
* @author Rob Harrop
```

```
* @author Juergen Hoeller
```

```
* @since 2.0
```

```
*/
```

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* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
* protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via { @link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/

```

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* /opt/ws_local/PERMITS_SQL/1088475779_1599790082.98/0/spring-webmvc-4-3-20-release-sources-1-
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## 1.256 rsocket-transport-netty 1.0.0-RC7

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jar/io/rsocket/core/StreamIdSupplier.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/SocketAcceptor.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/util/NumberUtils.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/internal/LimitableRequestPublisher.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/util/RecyclerFactory.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/plugins/DuplexConnectionInterceptor.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/core/RSocketRequester.java
*
/opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/util/RSocketProxy.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/DuplexConnection.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-
jar/io/rsocket/plugins/RSocketInterceptor.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/Payload.java
* /opt/cola/permits/1103764636_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/util/Clock.java

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\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/util/ByteBufPayload.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/resume/package-info.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/metadata/security/WellKnownAuthType.java  
\*  
/opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/internal/ClientServerInputMultiplexer.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/RSocket.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/Retryable.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/util/DefaultPayload.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/metadata/CompositeMetadata.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/transport/ServerTransport.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/frame/VersionFlyweight.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/Availability.java  
\*  
/opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/internal/UnboundedProcessor.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/internal/SwitchTransformFlux.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/core/RSocketResponder.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/transport/TransportHeaderAware.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/frame/FrameType.java  
\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/package-info.java  
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jar/io/rsocket/internal/SynchronizedIntObjectHashMap.java

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jar/io/rsocket/core/RSocketServer.java

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jar/io/rsocket/core/RSocketConnector.java

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jar/io/rsocket/RSocketFactory.java

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jar/io/rsocket/ConnectionSetupPayload.java

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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/lease/MissingLeaseException.java
- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/RejectedSetupException.java
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- /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/ApplicationErrorException.java
- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/CustomRSocketException.java
- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/InvalidSetupException.java
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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/core/ServerSetup.java
- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/plugins/InterceptorRegistry.java
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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/exceptions/SetupException.java
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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/fragmentation/ReassemblyDuplexConnection.java
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/opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-  
jar/io/rsocket/resume/ResumeStrategy.java  
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jar/io/rsocket/plugins/InitializingInterceptorRegistry.java  
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jar/io/rsocket/exceptions/UnsupportedSetupException.java  
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jar/io/rsocket/core/DefaultConnectionSetupPayload.java  
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jar/io/rsocket/exceptions/RSocketException.java  
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jar/io/rsocket/fragmentation/FrameReassembler.java  
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jar/io/rsocket/exceptions/ConnectionErrorException.java  
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jar/io/rsocket/RSocketErrorException.java  
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jar/io/rsocket/fragmentation/FragmentationDuplexConnection.java  
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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/resume/ResumableDuplexConnection.java
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- \* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/internal/UnicastMonoProcessor.java
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\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/resume/UpstreamFramesSubscriber.java

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\* /opt/cola/permits/1103764636\_1604518270.78/0/rsocket-core-1-0-0-rc7-sources-jar/io/rsocket/internal/CollectionUtil.java

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Found in path(s):

\* /opt/cola/permits/1110632783\_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

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 */
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Found in path(s):

```
* /opt/cola/permits/1110636580_1606842477.0/0/opentest4j-1-0-0-sources-1-
jar/org/opentest4j/TestSkippedException.java
* /opt/cola/permits/1110636580_1606842477.0/0/opentest4j-1-0-0-sources-1-jar/org/opentest4j/ValueWrapper.java
* /opt/cola/permits/1110636580_1606842477.0/0/opentest4j-1-0-0-sources-1-
jar/org/opentest4j/MultipleFailuresError.java
*
/opt/cola/permits/1110636580_1606842477.0/0/opentest4j-1-0-0-sources-1-
jar/org/opentest4j/AssertionFailedError.java
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jar/org/opentest4j/TestAbortedException.java
* /opt/cola/permits/1110636580_1606842477.0/0/opentest4j-1-0-0-sources-1-
jar/org/opentest4j/IncompleteExecutionException.java
```

# 1.268 loud-rejection 1.6.0

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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# 1.318 cookie-signature 1.0.6

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```
# cookie-signature
```

Sign and unsign cookies.

```
## Example
```

```
```js
```

```
var cookie = require('cookie-signature');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

```
```
```

```
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```

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\* /opt/cola/permits/1110631391\_1606919057.82/0/cookie-signature-1-0-6-5-tgz/package/Readme.md

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## 1.323 number-is-nan 1.0.1

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## 1.325 isomorphic-fetch 2.2.1

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isomorphic-fetch [![Build Status](https://travis-ci.org/matthew-andrews/isomorphic-fetch.svg?branch=master)](https://travis-ci.org/matthew-andrews/isomorphic-fetch)

=====

Fetch for node and Browserify. Built on top of [GitHub's WHATWG Fetch polyfill](https://github.com/github/fetch).

## Warnings

- This adds `fetch` as a global so that its API is consistent between client and server.
- You must bring your own ES6 Promise compatible polyfill, I suggest [es6-promise](https://github.com/jakearchibald/es6-promise).

For [ease-of-maintenance and backward-compatibility reasons][why polyfill], this library will always be a polyfill.

As a "safe" alternative, which does not modify the global, consider [fetch-ponyfill][].

[why polyfill]: <https://github.com/matthew-andrews/isomorphic-fetch/issues/31#issuecomment-149668361>

[fetch-ponyfill]: <https://github.com/qubyte/fetch-ponyfill>

## ## Installation

### ### NPM

```
```sh
npm
install --save isomorphic-fetch es6-promise
```
```

### ### Bower

```
```sh
bower install --save isomorphic-fetch es6-promise
```
```

## ## Usage

```
```js
require('es6-promise').polyfill();
require('isomorphic-fetch');

fetch('//offline-news-api.herokuapp.com/stories')
  .then(function(response) {
    if (response.status >= 400) {
      throw new Error("Bad response from server");
    }
    return response.json();
  })
  .then(function(stories) {
    console.log(stories);
  });
```
```

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Found in path(s):

\* /opt/cola/permits/1110639708\_1606855463.93/0/fis-components-isomorphic-fetch-2-2-1-0-g4801b9c-1-tar-gz/fis-components-isomorphic-fetch-9599403/README.md

# 1.326 arr-flatten 1.1.0

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## 1.328 error-ex 1.3.2

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## 1.329 oauth-sign 0.9.0

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/opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/java/JavaXType.java
* /opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/Filter.java
* /opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/util/StringHelper.java
* /opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-

```

```
jar/org/hibernate/annotations/common/Version.java
* /opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/util/ReflectHelper.java
* /opt/cola/permits/1110676380_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-
jar/org/hibernate/annotations/common/reflection/XAnnotatedElement.java
```

# 1.392 guava 25.0-jre

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```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SingletonImmutableList.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ComparisonChain.java
```

```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSetMultimap.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMap.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
*   ImmutableSortedMap#of(Comparable, Object)}.</b>
*/

```

Found in path(s):



\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ConcurrentHashMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparatorOrdering.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ReverseNaturalOrdering.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingListIterator.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/TreeMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/LinkedListMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedMap.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Iterators.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/collect/ExplicitOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/LinkedHashMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/package-info.java  
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jar/com/google/common/collect/UsingToStringOrdering.java  
\*  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Multisets.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingConcurrentMap.java  
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jar/com/google/common/collect/ForwardingMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/RegularImmutableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Iterables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/EnumHashBiMap.java  
\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/HashMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableList.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ListMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractSetMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingQueue.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Multimaps.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingObject.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractMapBasedMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Sets.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableSet.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingList.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EnumBiMap.java  
\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ReverseOrdering.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/WellBehavedMap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/GwtTransient.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMapEntry.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MultimapBuilder.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/MacHashFunction.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LittleEndianByteArray.java

\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/InterruptibleTask.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CombinedFuture.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFutureState.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ConsumingQueueIterator.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Platform.java

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```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/IndexedImmutableSet.java
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jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
```

```

jar/com/google/common/util/concurrent/WrappingExecutorService.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/EmptyContiguousSet.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/RemovalCause.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/RemovalListener.java

```



```

* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/BoundType.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AsyncFunction.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/Uninterruptibles.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-

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jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/package-info.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
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\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/CacheBuilderSpec.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/Queues.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularContiguousSet.java  
\*

/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FunctionalEquivalence.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Striped64.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Subscriber.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingSortedMultiset.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RangeSet.java

```
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMultiset.java
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```

```
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

```
Found in path(s):
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/Partially.java
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaperBuilder.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/reflect/TypeToken.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/Futures.java  
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jar/com/google/common/reflect/Reflection.java  
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\* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular  
\* version.  
\*/

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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jar/com/google/common/collect/UnmodifiableListIterator.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/RowSortedTable.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/AbstractSequentialIterator.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/SortedMapDifference.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingImmutableCollection.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/MinMaxPriorityQueue.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingSetMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/collect/ForwardingListMultimap.java

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 */
```

```
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */
```

Found in path(s):

```
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ObjectArrays.java
```

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- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/package-info.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java
- \*
- /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Equivalence.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Strings.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedLists.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ContiguousSet.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Atomics.java
- \*
- /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Monitor.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListeningExecutorService.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/Beta.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Ascii.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractHashFunction.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingLock.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java

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jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
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jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Utf8.java  
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jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/base/Verify.java  
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jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
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jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
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jar/com/google/common/collect/AbstractTable.java  
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jar/com/google/common/collect/FilteredMultimapValues.java  
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jar/com/google/common/hash/HashingInputStream.java  
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jar/com/google/common/base/VerifyException.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Predicates.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/LittleEndianDataInputStream.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/AllowConcurrentEvents.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Supplier.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizableSoftReference.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/DeadEvent.java  
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\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-

```
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/CountingInputStream.java
*
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jar/com/google/common/base/FinalizableWeakReference.java
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jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
*
/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/Graph.java
```



\*  
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jar/com/google/common/graph/Graphs.java  
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\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* java.util.HashMap  
class.  
\*/

Found in path(s):  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-  
jar/com/google/common/util/concurrent/Striped.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ImmutableSupplier.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/JdkBackedImmutableSet.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Traverser.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableRangeMap.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/Element.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteSink.java  
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 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredKeyMultimap.java  
 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/BaseEncoding.java  
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 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LongAddables.java  
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 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/LinearTransformation.java  
 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractByteHasher.java  
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 /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/ChecksumHashFunction.java  
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 \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CartesianList.java  
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jar/com/google/common/collect/SortedMultisets.java
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtCompatible.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/LocalCache.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractIdleService.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Splitter.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/UnsignedBytes.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/html/HtmlEscapers.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractService.java  
\*  
/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Platform.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/ArrayBasedEscaperMap.java



\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/xml/XmlEscapers.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/MapMaker.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingFuture.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/ArrayBasedCharEscaper.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableTable.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/Platform.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableMap.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EmptyImmutableListMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMapEntrySet.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMultiset.java

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jar/com/google/common/collect/CollectPreconditions.java  
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jar/com/google/common/collect/StandardTable.java  
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jar/com/google/common/collect/Table.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/primitives/Booleans.java
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jar/com/google/common/net/InetAddresses.java
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Floats.java  
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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ConfigurableMutableNetwork.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
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- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredEntryMultimap.java
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- /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredMultimap.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CompactHashSet.java
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- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/TransformedIterator.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CompactLinkedHashMap.java
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- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/TreeTraverser.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CompactHashMap.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- \* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/DescendingMultiset.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RangeMap.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/DescendingImmutableSortedSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableEnumMap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredSetMultimap.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/CompactLinkedHashSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingNavigableSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingImmutableSet.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredKeyListMultimap.java

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/opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedMultisetBridge.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableAsList.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AllEqualOrdering.java

\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingImmutableMap.java

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\* /opt/cola/permits/1110675684\_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingNavigableMap.java

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- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
- \*
- /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/HttpHeaderValues.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
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- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/HttpMessageUtil.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
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- /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
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- /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
- \* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
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jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
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* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
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jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/HttpStatusClass.java
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jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
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jar/io/netty/handler/codec/http/HttpChunkedInput.java
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/opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java  
\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java  
\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/ServerCookieEncoder.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java

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jar/io/netty/handler/codec/http/CookieUtil.java
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jar/io/netty/handler/codec/http/HttpUtil.java
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jar/io/netty/handler/codec/http/HttpScheme.java
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jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
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* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
*
/opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java

\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java

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/opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyVersion.java

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/opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java

\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java

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\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java

\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java

\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java

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/opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java

\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-

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jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
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jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
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jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
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/opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java  
\* /opt/cola/permits/1110856971\_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/FullHttpMessage.java  
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jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
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 jar/io/netty/handler/codec/http/package-info.java  
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 jar/io/netty/handler/codec/rtsp/RtspMethods.java  
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 jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java  
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jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java  
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\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/OverridesAttribute.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/constraints/DecimalMin.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/constraints/Min.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/ConstraintViolationException.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/metadata/PropertyDescriptor.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/ValidatorContext.java

\*

/opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/ConstraintDefinitionException.java

\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/spi/ValidationProvider.java

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\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/constraints/Future.java  
\* /opt/cola/permits/1110910680\_1606872045.75/0/validation-api-1-0-0-ga-sources-1-jar/javax/validation/metadata/ConstraintDescriptor.java

# 1.398 xml-commons 1.3.4

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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

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/\*\*  
\* DOM Level 3 LS CR - Experimental.  
\* Create a new `LSParser`. The newly constructed parser may  
\*  
then be configured by means of its `DOMConfiguration`  
\* object, and used to parse documents by means of its `parse`  
\* method.  
\* @param mode The `mode` argument is either  
\* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if  
\* `mode` is `MODE_SYNCHRONOUS` then the  
\* `LSParser` that is created will operate in synchronous

- \* mode, if it's `MODE_ASYNCHRONOUS` then the
- \* `LSParser` that is created will operate in asynchronous
- \* mode.
- \* @param schemaType An absolute URI representing the type of the schema
- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* 

>>>**Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]

  - \* , applications must use the value
  - \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
  - \* applications must use the value
  - \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
  - \* are outside the scope of the W3C and therefore should recommend an
  - \* absolute URI in order to use this method.
- \* @return The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* 

>>>**Note:** By default, the newly created `LSParser`

  - \* does not contain a `DOMErrorHandler`, i.e. the value of
  - \* the "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)"
  - \* configuration parameter is `null`. However, implementations
  - \* may provide a default error handler at creation time. In that case,
  - \* the initial value of the `"error-handler"` configuration
  - \* parameter on the new created `LSParser` contains a
  - \* reference to the default error handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.

Found in path(s):

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
- \*
- /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXInputSource.java
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* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java  
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java  
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/opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java  
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-

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 jar/org/apache/xerces/impl/xs/XSWildcardDecl.java  
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 jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java  
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 jar/org/apache/wml/WMLRefreshElement.java  
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 jar/org/apache/xerces/xs/XSAnnotation.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/AttributePSVI.java

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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java

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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java

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jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
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/opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
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jar/org/apache/xml/serialize/Method.java
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java

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/opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java

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/opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java

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\*

`/opt/cola/permits/1111264394_1607991879.98/0/aopalliance-repackaged-2-5-0-b05-sources-1-jar/pom.xml`

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```
* /opt/cola/permits/1111264994_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Provider.java
* /opt/cola/permits/1111264994_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Named.java
* /opt/cola/permits/1111264994_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Scope.java
*
/opt/cola/permits/1111264994_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/Qualifier.java
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* /opt/cola/permits/1111264994_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/javax/inject/package-
info.java
```

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/opt/cola/permits/1111264994\_1606891737.13/0/javax-inject-2-5-0-b05-sources-2-jar/pom.xml

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\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
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```

/**
 * Returns a list of all element keys in the cache, whether or not they are expired.
 * <p/>
 * The returned keys are unique and can almost be considered a set. See { @link net.sf.ehcache.store.CacheKeySet
CacheKeySet} for
 * more details.
 * <p/>
 * The List returned is not live. It is a copy.
 * <p/>
 * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
 * for each 1000 entries.
 *
 * @return a list of { @link Object} keys
 * @throws IllegalStateException if the cache is not { @link Status#STATUS_ALIVE}
 * @see net.sf.ehcache.store.CacheKeySet
 */

```

Found in path(s):

```
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```
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/InvalidConfigurationException.java
```

```
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/PreferTCCLObjectInputStream.java
```

```
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/WriteBehindManager.java
```

```
*
```

```
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/NotificationScope.java
```

```
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
```

jar/net/sf/ehcache/event/TerracottaCacheEventReplication.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/util/counter/sampled/SampledRateCounter.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/statistics/NullLiveCacheStatisticsData.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/writer/writebehind/WriteBehind.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/management/impl/BaseEmitterBean.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/AlwaysMatch.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/ccs/EhcacheReadOnlyCache.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/event/NonstopCacheEventListener.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/transaction/xa/EhcacheXAException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/strategy/ReadWriteEhcacheEntityRegionAccessStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/statistics/LiveCacheStatisticsWrapper.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/aggregator/Aggregators.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/elements/FactoryConfigurationElement.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/util/CircularLossyQueue.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/elements/TerracottaConfigurationElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/impl/ResultsImpl.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/transaction/manager/selector/AtomikosSelector.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/store/NonstopTimeoutBehaviorStoreResolver.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/transaction/manager/selector/BitronixSelector.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/ClusterOperationCallable.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/LessThan.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/XMLGeneratorVisitor.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/EhcacheJtaTransactionManagerLookup.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/CacheReplicator.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheCollectionRegionAccessStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Status.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractBalancedAccessEvictor.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/ComprehensiveCacheSampler.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/NullMBeanRegistrationProvider.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/PropertyUtil.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/PersistenceConfigurationElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/UnlockedRateStatistic.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopExecutorService.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderException.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Aggregator.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/attribute/JavaBeanAttributeExtractor.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMICacheManagerPeerListener.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/ReflectionSizeOf.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/nonstop/NonstopAwareCollectionRegionAccessStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/OperationConverter.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/ComparableValue.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/MemoryUnit.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/cluster/CacheCluster.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ResourceClassLoader.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/TerracottaCacheCluster.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/DiskStorePathManager.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Criteria.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/CacheManagerExecutorServiceFactory.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/BalancedAccessOnHeapPoolEvictor.java

\*

/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopSync.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/SingleOperation.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AtomicPoolAccessor.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/AbstractSoftLockManager.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/ConfigurationGenerator.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/AbstractCacheWriter.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/CacheSamplerImpl.java

\*

/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/ConfigurationHelper.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/strategy/NonStrictReadWriteEhcacheEntityRegionAccessStrategy.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/store/ClusterOperationCallableImpl.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/CacheEventListenerFactory.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/AggregateCacheRegionStats.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/strategy/ReadOnlyEhcacheEntityRegionAccessStrategy.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMICacheManagerPeerProviderFactory.java

\*

/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/NonstopConfiguration.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/CounterConfig.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/ObjectExistsException.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/MaxDepthExceededException.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/AgentLoader.java

\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-

```

jar/net/sf/ehcache/distribution/CachePeer.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/AbstractDepthFirstVisitor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/AggregateOnlyResult.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/TerracottaBootstrapCacheLoaderFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/ClusterSchemeNotAvailableException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/ManagementService.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/NonstopConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/LiveCacheStatisticsImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/CopyStrategyConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/SearchAttribute.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/CacheTransactionHelper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/ClassLoaderUtil.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/Decision.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/ConfigurableRMIClientSocketFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/CacheConfigurationListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/aggregator/Sum.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/CacheConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/CacheManagerPeerListener.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/local/JtaLocalTransactionStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/LiveCacheStatistics.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/Cache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/Selector.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/EhcacheAccessStrategyFactoryImpl.java

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* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/ClusterNode.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/AbstractReadWriteEhcacheAccessStrategy.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/SoftLockFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/blocking/BlockingCache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/TerracottaClientConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/CacheManagerPeerListenerFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/CoalesceKeysFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/ThrowTimeoutException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/CounterManager.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/CacheManager.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/PersistenceConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/classloader/InternalClassLoaderAwareCache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionIDImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/provider/MBeanRegistrationProvider.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/KeyObjectAttributeExtractor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/SerializableXid.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/EhCache.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/ExceptionOnTimeoutStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/EhcacheCoreInit.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/MimeTypeByteArray.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/NonstopTimeoutBehaviorFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/DiskSizeOfEngine.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/config/DiskStoreConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/TierableStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/TransactionManagerLookup.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/CacheStatistics.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/TimeoutBehaviorConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/Store.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/NoOpOnTimeoutStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/JvmInformation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/sampled/NullSampledCacheStatistics.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/AbstractEhcacheAccessStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionIDNotFoundException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/regions/EhcacheQueryResultsRegion.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledCache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/XidTransactionIDImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/compound/ImmutableValueElementCopyStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/CacheManagerPeerProvider.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/XidTransactionID.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/NullSelector.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/TimeStampedCounterValue.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/LongSequence.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/FromLargestCacheOnDiskPoolEvictor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/Attribute.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderImpl.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/CastingOperationConverter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/exceptionhandler/CacheExceptionHandlerFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/XAExecutionListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/PayloadUtil.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/operations/SingleOperationType.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/DefaultTransactionManagerLookup.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/extension/CacheExtensionFactory.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/SimpleNodeElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/regions/EhcacheGeneralDataRegion.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/ClusteredInstanceFactoryWrapper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionIDSerializedForm.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/bootstrap/BootstrapCacheLoader.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/DefaultCacheConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/DefaultSizeOfEngine.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheEntityRegionAccessStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledCounterImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/LruMemoryStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/ExplicitLockingContext.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/FindBugsSuppressWarnings.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/ccs/EhcacheNonstrictReadWriteCache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/DiskStoreConfigurationElement.java
*

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/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/nonstop/NonstopAwareEntityRegionAccessStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/util/Timestamper.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/NonstopThread.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/bootstrap/BootstrapCacheLoaderFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/Or.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/transaction/ReadCommittedSoftLockImpl.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/BaseCriteria.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/management/impl/BeanUtils.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/TerracottaConfiguration.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/aggregator/Min.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/distribution/RMIAynchronousCacheReplicator.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/Result.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/transaction/manager/selector/IndiSelector.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/distribution/RMICacheReplicatorFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/CacheConfigError.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/aggregator/AggregatorInstance.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/GreaterThanOrEqual.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/store/compound/ReadWriteSerializationCopyStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/SizeOfPolicyConfiguration.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/management/CacheMBean.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/NotLike.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/blocking/UpdatingSelfPopulatingCache.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/blocking/SelfPopulatingCache.java

\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/constructs/EhcacheDecoratorAdapter.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernateMBeanRegistrationImpl.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/store/ElementValueComparator.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/config/DynamicSearchListener.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/transaction/TransactionInterruptedException.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/hibernate/strategy/ReadWriteEhcacheCollectionRegionAccessStrategy.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/constructs/nonstop/ClusterOperation.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/transaction/xa/commands/Command.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/pool/sizeof/filter/CombinationSizeOfFilter.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/transaction/XidTransactionIDSerializedForm.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/statistics/sampled/SampledCacheStatistics.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/writer/writebehind/WriteBehindQueueManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/store/AbstractStore.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/store/MemoryStoreEvictionPolicy.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/transaction/xa/commands/AbstractStoreCommand.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/store/FrontEndCacheTier.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/transaction/AbstractTransactionIDFactory.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/search/impl/SearchManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/management/sampled/CacheSampler.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/management/sampled/SampledMBeanRegistrationProvider.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/statistics/CacheUsageListener.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
jar/net/sf/ehcache/writer/writebehind/AbstractWriteBehindQueue.java

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* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/CacheEntry.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/RegisteredEventListeners.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionID.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/CacheManagerPeerProviderFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/SearchException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/TerracottaStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/ClassSelector.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/EhcacheXAResourceImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/filter/PassThroughFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/HibernateUtil.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledEhcacheMBeans.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/BalancedAccessOnDiskPoolEvictor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/local/TransactionListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/CollectionStats.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/Segment.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/operations/KeyBasedOperation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/CacheWriterConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/SearchableConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/LoaderTimeoutException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/WeakIdentityConcurrentMap.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/AbstractPool.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/AttributeExtractor.java
*

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/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/KeySnapshotter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/concurrent/LockType.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/operations/WriteOperation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/NullHibernateStats.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/MemorySizeParser.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/exceptionhandler/ExceptionHandlingDynamicCacheProxy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/CacheEventListenerAdapter.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/Size.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/ReflectionAttributeExtractor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledCounter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/NoopCacheCluster.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/NodeAttribute.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMICacheManagerPeerListenerFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/InternalEhcache.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledCounterConfig.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/loader/CacheLoaderFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/concurrent/Sync.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/TerracottaCacheEventReplicationFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledRateCounterImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/DefaultElementValueComparator.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/AbstractTransactionStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/NonstopStoreImpl.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/StoreQuery.java

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\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/CacheConfiguration.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockManagerImpl.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/CacheWriterFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EntityStats.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/InvalidLockStateAfterRejoinException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/attribute/ValueObjectAttributeExtractor.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/Direction.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/DiskStore.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/blocking/LockTimeoutException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/Policy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/FifoPolicy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/CacheStatisticsMBean.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/CacheStoreHelper.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/TransactionalRMICachePeer.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Max.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/CacheConfigurationMBean.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/HibernateStats.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/EhCacheRegionFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/CounterManagerImpl.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/TerracottaConfigConfigurationElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/ExpiredTransactionIDImpl.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/BaseQueryInterpreter.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/store/AbstractPolicy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/ratestatistics/AbstractRateStatistic.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/NotifyingMemoryStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/concurrent/ReadWriteLockSync.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/UnboundedPool.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/web/ShutdownListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/MulticastKeepaliveHeartbeatReceiver.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/filter/ResourceSizeOfFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/OrderComparator.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledCacheManagerMBean.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/Results.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/CacheOperationUnderExplicitLockCallable.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMIBootstrapCacheLoader.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/concurrent/ConcurrencyUtil.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionIDFactoryImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/GroupedResultImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/ccs/AbstractEhcacheConcurrencyStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/ComprehensiveCacheSamplerImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/ReadCommittedSoftLockFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/ExpiredXidTransactionIDImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/RegionSet.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/NullStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/commands/StoreRemoveCommand.java

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* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernateMbeanNames.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/ConfigError.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMICachePeer.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/ManagementServer.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/CacheManagerMBean.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/AbstractNodeElement.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/NonstopExecutorServiceFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/DisconnectedClusterNode.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/AttributeType.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/CacheQuery.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/operations/WriteAllOperation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/operations/DeleteOperation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMICacheManagerPeerProvider.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/CacheException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/counter/CounterImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/chm/SelectableConcurrentHashMap.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/AttributeExtractorException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/GlassfishSelector.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/CacheWriterManagerException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/FailSafeTimer.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionAwareAttributeExtractor.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/ElementValueComparatorConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/util/counter/sampled/SampledRateCounterConfig.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/LargeCollection.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/MulticastKeepaliveHeartbeatSender.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Disposable.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/ExplicitLockingClusterOperation.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/UnsafeSizeOf.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/EhcacheInit.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/api/EhcacheStats.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/FactorySelector.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/TimeoutBehaviorConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/ManagementRESTServiceConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/NodeElementVisitor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/RejoinAwareBlockingOperation.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/exceptionhandler/CacheExceptionHandler.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/writebehind/OperationsFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/FileAllocationTree.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/PoolableStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/ReadOnlyEhcacheCollectionRegionAccessStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/PoolEvictor.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/StoreListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/ManagementRESTServiceConfigurationElement.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/EqualTo.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/processor/XAThreadPool.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/DelegatingTransactionIDFactory.java

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\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/Configuration.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/AtomicRateStatistic.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractFromLargestCachePoolEvictor.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/MergedEnumeration.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/commands/StorePutCommand.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/DeadLockException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopExecutorServiceImpl.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/LegacyEventMessage.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/SingletonEhCacheRegionFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/compound/CopyStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/CacheWriterConfiguration.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/FromLargestCacheOnHeapPoolEvictor.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/SimpleNodeAttribute.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/CacheManagerEventListener.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/DiskStorageFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/PrimitiveType.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/StoreUpdateException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMISynchronousCacheReplicator.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/FlyweightType.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/XATransactionContext.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/CacheManagerEventListenerFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/DiskStoreBootstrapCacheLoader.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/store/ElementIdAssigningStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/ConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/EventMessage.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/ratestatistics/package-info.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/sampled/SampledCacheStatisticsWrapper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/annotations/IgnoreSizeOf.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/CacheRegionStats.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RMIBootstrapCacheLoaderFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/local/LocalTransactionStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/CacheManager.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/filter/AnnotationProxyFactory.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/EhCacheProvider.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/LiveCacheStatisticsData.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/NonstopThreadPool.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/PinningConfiguration.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/distribution/RmiEventMessage.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/CacheManagerSamplerImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/regions/EhcacheTimestampsRegion.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/TransactionController.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/blocking/UpdatingCacheEntryFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/sampled/SampledCacheStatisticsImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/local/LocalTransactionContext.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionIDFactory.java

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\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonStopCacheException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/LfuPolicy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/XATransactionStore.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Average.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Ehcache.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/concurrent/StripedReadWriteLockSync.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/TerracottaNotRunningException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ManagementServerLoader.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/TerracottaClusteredInstanceHelper.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/RateStatistic.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/DiskStoreBootstrapCacheLoaderFactory.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/LibraryInit.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/LegacyStoreWrapper.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Between.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/SizeOf.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/DeleteAllOperation.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/LockOperationTimedOutNonstopException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/UpdateChecker.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/BatchOperation.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/NullResults.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/Counter.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/WriteBehindQueue.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/compound/SerializationCopyStrategy.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/concurrent/CacheLockProvider.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/LessThanOrEqual.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/writer/CacheWriter.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/EhcacheAccessStrategyFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/ConfigurationSource.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/TerracottaBootstrapCacheLoader.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/compound/ReadWriteCopyStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledCacheMBean.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Element.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/ExplicitLockingContextThreadLocal.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/TransactionTimeoutException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/ElementEvictionData.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/filter/AnnotationSizeOfFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/AbstractCacheConfigurationListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopThreadUniqueIdProvider.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/DefaultElementEvictionData.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/processor/XARequestProcessor.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/GreaterThan.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/TransactionalExecutorServiceStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/CacheEventListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/loader/CacheLoader.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/TerracottaClient.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/StrictlyBoundedPool.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/constructs/classloader/ClassLoaderAwareCache.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/ConfigurationFactory.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/elements/PinningConfigurationElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/store/StripedReadWriteLockProvider.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/pool/impl/BoundedPool.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/ElementValueComparatorConfiguration.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/aggregator/AggregatorException.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/store/RejoinAwareNonstopStore.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderFactoryImpl.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/search/expression/NotEqualTo.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/concurrent/StripedReadWriteLock.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/elements/SizeOfPolicyConfigurationElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/util/TimeProviderLoader.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/AbstractEhcacheProvider.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/config/generator/model/NodeElement.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/management/sampled/CacheManagerSampler.java  
 \*  
 /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/hibernate/regions/EhcacheTransactionalDataRegion.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/pool/sizeof/AgentSizeOf.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/store/MemoryStore.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/management/sampled/Utils.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/constructs/blocking/CacheEntryFactory.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/util/ProductInfo.java  
 \* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-  
 jar/net/sf/ehcache/distribution/MulticastRMICacheManagerPeerProvider.java

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* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/TerracottaClientRejoinListener.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/ccs/EhcacheReadWriteCache.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/event/CacheManagerEventListenerRegistry.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/ResultImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/NonstopStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/ClusterTopologyListener.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/impl/BaseResult.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/FeaturesManager.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/ExecutorServiceStore.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/aggregator/Count.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/nonstop/HibernateNonstopCacheExceptionHandler.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/ProviderMBeanRegistrationHelper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/MemoryEfficientByteArrayOutputStream.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/Query.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/cluster/ClusterScheme.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/compound/LegacyCopyStrategyAdapter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/CacheInitializationHelper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/Region.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/ClusteredInstanceFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/manager/selector/GenericIndiSelector.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/CacheDecoratorFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/Searchable.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-

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jar/net/sf/ehcache/constructs/nonstop/NonstopActiveDelegateHolder.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/statistics/sampled/CacheStatisticsSampler.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/Store.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopCacheLockProvider.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/AggregateIterator.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/sampled/SampledCacheManager.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/CacheKeySet.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ods/AATreeSet.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/extension/CacheExtension.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/store/disk/ElementSubstituteFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/SerializationHelper.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/NamedThreadFactory.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/NonStrictReadWriteEhcacheCollectionRegionAccessStrategy.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/BeanHandler.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/NonStopCacheKeySet.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/And.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/ConfigurationUtil.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/QueryStats.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/processor/XARequest.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/transaction/xa/OptimisticLockFailureException.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/EhcacheStatsImpl.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/SlewClock.java

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\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/WeblogicSelector.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/CacheConfigurationElement.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLock.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/AtomicLongSequence.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/nonstop/NonstopAccessStrategyFactory.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/TaskNotSubmittedTimeoutException.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/Pool.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/util/OverrideCheck.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryOnlyStore.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/InCollection.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/EhcacheXAResource.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RemoteCacheException.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/ElementIdHelper.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/DynamicSearchChecker.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/SetAsList.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ManagedCacheManagerPeerProvider.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Not.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/HashEntry.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryLimitedCacheLoader.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/PoolAccessor.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/FactoryConfiguration.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/ManualRMICacheManagerPeerProvider.java

\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/SingletonEhCacheProvider.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernate.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheCollectionRegion.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/TimeUtil.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/AbstractEhcacheRegionFactory.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/DiskBackedMemoryStore.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/EhcacheHibernateMBean.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Statistics.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheEntityRegion.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/LruPolicy.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernateMBeanRegistration.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/CacheRegionUtils.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/util/CountingThreadFactory.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockID.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/compound/NullReadWriteCopyStrategy.java  
\*  
/opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/CacheWriterManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writethrough/WriteThroughManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheDataRegion.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/store/LocalReadsOnTimeoutStore.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/local/LocalRecoveryManager.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/HibernateStatsImpl.java  
\* /opt/cola/permits/1111500833\_1606929582.87/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractPoolAccessor.java  
\*

```

/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/expression/ILike.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/CopyStrategyConfigurationElement.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/VmUtils.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/ObjectGraphWalker.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/util/LargeSet.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/terracotta/RotatingSnapshotFile.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/SizeOfEngine.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/impl/LockedPoolAccessor.java
*
/opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/pool/sizeof/filter/SizeOfFilter.java
* /opt/cola/permits/1111500833_1606929582.87/0/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/search/attribute/DynamicAttributesExtractor.java

```

## 1.417 jackson-module-scala 2.1.5

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```

import AssemblyKeys._
import PgpKeys._
import ReleaseKeys._
import sbtrelease._
import ReleaseStateTransformations._

// Basic facts
name := "jackson-module-scala"

organization := "com.fasterxml.jackson.module"

crossScalaVersions := Seq("2.9.1", "2.9.2", "2.10.0")

libraryDependencies <+= (version) { (v) => Seq(
  // These are "provided" so that sbt-assembly doesn't include them (we'll fix the pom later)
  "com.fasterxml.jackson.core" % "jackson-core" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-annotations" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-databind" % v % "provided"
) }

```

```

libraryDependencies += Seq(
  // saying this is intransitive prevents the deps from being included in the jar
  "com.fasterxml.jackson.module" %% "scalabeans" % "0.4-SNAPSHOT" intransitive(),
  // but now we need to add scalabeans deps explicitly (also as "provided")
  "com.thoughtworks.paranamer"
% "paranamer" % "2.3" % "provided",
  "com.google.guava" % "guava" % "13.0.1" % "provided",
  // test dependencies
  "org.scalatest" %% "scalatest" % "2.0.M5" % "test" cross CrossVersion.binaryMapped {
    case "2.10" => "2.10.0"
    case x => x
  },
  "junit" % "junit" % "4.11" % "test",
  "com.fasterxml.jackson.datatype" % "jackson-datatype-joda" % "2.1.2" % "test"
)

// Another scalabeans dependency, for 2.10 only
libraryDependencies <+= (scalaBinaryVersion, scalaVersion) { (sbv,sv) => sbv match {
  // again, "provided" so that it is not included in the jar
  case "2.10" => Seq("org.scala-lang" % "scala-reflect" % sv % "provided")
  case _ => Seq()
} }

// Change the classifier of the main jar
artifact in (Compile, packageBin) ~= { (art: Artifact) =>
  art.copy(`classifier` = Some("base"))
}

// Disable publishing the main jar
publishArtifact in (Compile, packageBin) := false

// setup sbt-assembly settings
assemblySettings

// don't assembly the scala
dependency
assembleArtifact in packageScala := false

// don't add "assembly" to the jar name
jarName in assembly <<= (name, version, scalaBinaryVersion) { (name, version, sbv) =>
  name + "_" + sbv + "-" + version + ".jar"
}

// place the assembly in the versioned path
outputPath in assembly <<= (target in assembly, jarName in assembly, scalaBinaryVersion) { (t,s,v) =>
  t / ("scala-" + v) / s
}

```

```

// don't have a classifier on the assembly
artifact in (Compile, assembly) ~= { (art: Artifact) =>
  art.copy(`classifier` = None)
}

// add the assembly as an artifact
addArtifact(artifact in (Compile, assembly), assembly)

// add the assembly signature as an artifact
packagedArtifacts <<= (packagedArtifacts, pgpSigner, skip in pgpSigner, streams) map { (artifacts,r,skipZ,s) =>
  if (!skipZ) {
    artifacts flatMap {
      // This works because the assembly has already been declared with no classifier
      case (art @ Artifact(_, "jar", "jar", None, _, _, _), file) =>
        Seq(art
          -> file,
          art.copy(extension = art.extension + ".asc") -> r.sign(file, new File(file.getAbsolutePath + ".asc"), s))
        case (art, file) => Seq(art -> file)
    }
  } else artifacts
}

// pom re-writing:
// * remove the scalabeans dependency, as it's included
// * remove the 'provided' annotation on others, as they're not
pomPostProcess := {
  import xml.transform._
  new RuleTransformer(new RewriteRule {
    override def transform(node: xml.Node) = node match {
      case n if ((n \ "artifactId").text.startsWith("scalabeans")) => xml.NodeSeq.Empty
      case n @ <scope>{_*}</scope> if n.text == "provided" => xml.NodeSeq.Empty
      case _ => node
    }
  })
}

// publishing
publishMavenStyle := true

publishTo <<= version { v =>
  val nexus = "https://oss.sonatype.org/"
  if (v.trim.endsWith("SNAPSHOT"))
    Some("snapshots" at nexus + "content/repositories/snapshots")
  else
    Some("releases" at nexus +
      "service/local/staging/deploy/maven2")
}

```

```

publishArtifact in Test := false

pomIncludeRepository := { _ => false }

pomExtra := {
  <url>http://wiki.fasterxml.com/JacksonModuleScala</url>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <scm>
    <connection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</connection>
    <developerConnection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</developerConnection>
    <url>http://github.com/FasterXML/jackson-module-scala</url>
  </scm>
  <developers>
    <developer>
      <id>tatu</id>
      <name>Tatu Saloranta</name>
      <email>tatu@fasterxml.com</email>
    </developer>
    <developer>
      <id>christopher</id>
      <name>Christopher Currie</name>
      <email>christopher@currie.com</email>
    </developer>
  </developers>
  <contributors>
    <contributor>
      <name>Nathaniel Bauernfeind</name>
    </contributor>
    <contributor>
      <name>Anton Panasenko</name>
    </contributor>
  </contributors>
}

// credentials
credentials += Credentials(Path.userHome / ".ivy2" / ".credentials")

// release
releaseSettings

// bump bugfix on release
nextVersion := { ver => Version(ver).map(_._bumpBugfix.asSnapshot.string).getOrElse(versionFormatError) }

```

```

// use maven style tag name
tagName <<= (name, version in ThisBuild) map { (n,v) => n + "-" + v }

// don't publish on release, it doesn't work with cross version publishing
// TODO: see about defining multiple release processes, to do prepare/perform
// split processes similar to the Maven release plugin
releaseProcess := Seq(
  // TODO remove when scalabeans isn't a custom build
  // checkSnapshotDependencies,
  inquireVersions,
  runTest,
  setReleaseVersion,
  commitReleaseVersion,
  tagRelease,
  setNextVersion,
  commitNextVersion
)

```

Found in path(s):

```

* /opt/cola/permits/1112016056_1612266516.32/0/jackson-module-scala-2-1-5-zip/jackson-module-scala-jackson-
module-scala-2.1.5/build.sbt

```

## 1.418 swagger-core 1.3.5

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 *
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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

```

* /opt/cola/permits/1112015812_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-
jar/com/wordnik/swagger/core/util/JsonSerializer.scala

```



\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/filter/SpecFilter.scala  
\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/AuthorizationModels.scala  
\*  
/opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ReaderUtil.scala  
\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ModelUtil.scala  
\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/TypeUtil.scala  
\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/JsonUtil.scala  
\* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/SwaggerModels.scala

## 1.419 infer-owner 1.0.4

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## 1.420 p-try 2.2.0

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## 1.421 chownr 1.1.4

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## 1.423 xml-schema-core 2.0.3

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.433 cglib 2.2.0-b21

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```
* /opt/cola/permits/1112466733_1607091817.23/0/cglib-2-2-0-b21-sources-1-
jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
* /opt/cola/permits/1112466733_1607091817.23/0/cglib-2-2-0-b21-sources-1-
jar/net/sf/cglib/proxy/MethodInterceptor.java
* /opt/cola/permits/1112466733_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Factory.java
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassFilterTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/DefaultNamingPolicy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java  
\*  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/CallbackGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/FastMethod.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Mixin.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassTransformerChain.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ReflectUtils.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BeanCopier.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BeanMapEmitter.java  
\*  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/VisibilityPredicate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/ImmutableBean.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/CallbackFilter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/MulticastDelegate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/MethodProxy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-

jar/net/sf/cglib/transform/AbstractClassLoader.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/FastClass.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/FixedValueGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/TypeUtils.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/MixinEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/core/CollectionUtils.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/EmitUtils.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/LazyLoaderGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/CodeEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/core/MethodWrapper.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/DispatcherGenerator.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/proxy/NoOpGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/beans/BulkBeanEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/core/AbstractClassGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Proxy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BeanMap.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/reflect/MethodDelegate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/reflect/FastClassEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/KeyFactory.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-  
jar/net/sf/cglib/core/DebuggingClassWriter.java

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- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/FastMember.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassTransformerTee.java
- \*
- /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ClassGenerator.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/InvocationHandler.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ProcessArrayCallback.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/Local.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/util/StringSwitcher.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Dispatcher.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/AbstractProcessTask.java
- \*
- /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/NoOp.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BulkBeanException.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/TransformingClassGenerator.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassVisitorTee.java
- \* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/MethodFilter.java
- \*

/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java  
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/util/ParallelSorterEmitter.java  
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/ProxyRefDispatcher.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/DefaultGeneratorStrategy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/Constants.java  
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/TinyBitSet.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/Signature.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/util/SorterTemplate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ProcessSwitchCallback.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/AbstractClassTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/NamingPolicy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ClassNameReader.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassTransformerFactory.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/LazyLoader.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/MethodVisitorTee.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BulkBean.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassEmitterTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/FastConstructor.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/FieldProvider.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/MixinBeanEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/DuplicatesPredicate.java  
\*

/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/ConstructorDelegate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ClassEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/MethodFilterTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassFilter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/GeneratorStrategy.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ObjectSwitchCallback.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BeanGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Callback.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/TransformingClassLoader.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ClassesKey.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/AnnotationVisitorTee.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/Transformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/ClassReaderGenerator.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/CodeGenerationException.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java  
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/Predicate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/util/ParallelSorter.java  
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\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/RejectModifierPredicate.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/InterfaceMaker.java  
\*  
/opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/AddInitTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/CallbackInfo.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/CallbackHelper.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/MethodInfoTransformer.java  
\* /opt/cola/permits/1112466733\_1607091817.23/0/cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/ClassInfo.java  
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# 1.434 javax-inject 2.2.0-b21

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\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Named.java

\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Inject.java

\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Qualifier.java

\*

/opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Singleton.java

\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Scope.java

\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/package-info.java

\* /opt/cola/permits/1112466749\_1607091827.32/0/javax-inject-2-2-0-b21-sources-1-jar/javax/inject/Provider.java

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## 1.435 hk2-utils 2.2.0-b21

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jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
*
/opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
*
/opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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/opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
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/opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java

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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksRequest.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/SocksMessage.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java  
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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java  
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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v5/package-info.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java  
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/opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java  
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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/package-info.java  
\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java

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/opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java

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/opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/package-info.java

\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java

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\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthScheme.java

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/opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdType.java

\* /opt/cola/permits/1112470227\_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthStatus.java



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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
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jar/io/netty/handler/codec/socks/SocksCmdStatus.java
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* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1112470227_1607093047.17/0/netty-codec-socks-4-1-17-final-sources-1-
jar/io/netty/handler/codec/socks/SocksRequestType.java

```

# 1.440 netty-handler-proxy 4.1.17.Final

## 1.440.1 Available under license :

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```

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*/

```

Found in path(s):

```
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
*
/opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-
jar/io/netty/handler/proxy/HttpProxyHandler.java
```

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Found in path(s):

```
* /opt/cola/permits/1112470233_1607093033.11/0/netty-handler-proxy-4-1-17-final-sources-jar/META-
INF/maven/io.netty/netty-handler-proxy/pom.xml
```

## 1.441 netty-transport 4.1.17.Final

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Found in path(s):

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/META-INF/maven/io.netty/netty-transport/pom.xml

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\*/

/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

\* its { @link ChannelPipeline }.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:

\* <ul>

\* <li>{ @link

ChannelInboundHandler } to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>

- \* [@link ChannelOutboundHandlerAdapter](#) to handle outbound I/O operations, and
- \* [@link ChannelDuplexHandler](#) to handle both inbound and outbound events

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A [@link ChannelHandler](#) is provided with a [@link ChannelHandlerContext](#)

\* object. A [@link ChannelHandler](#) is supposed to interact with the

\* [@link ChannelPipeline](#) it belongs to via a context object. Using the

\* context object, the [@link ChannelHandler](#) can pass events upstream or

\* downstream, modify the pipeline dynamically,

or store the information

\* (using [@link AttributeKey](#)s) which is specific to the handler.

\*

\* <h3>State management</h3>

\*

\* A [@link ChannelHandler](#) often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

```
* public interface Message {
```

```
*     // your methods here
```

```
* }
```

```
*
```

```
* public class DataServerHandler extends @link SimpleChannelInboundHandler &lt;Message> {
```

```
*
```

```
*     <b>private boolean loggedIn;</b>
```

```
*
```

```
*     {@code @Override
```

```
*     public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
```

```
*         @link Channel ch = e.getChannel();
```

```
*         if (message instanceof LoginMessage) {
```

```
*             authenticate((LoginMessage) message);
```

```
*             <b>loggedIn = true;</b>
```

```
*         } else (message instanceof GetDataMessage) {
```

```
*             if (<b>loggedIn</b>) {
```

```
*                 ch.write(fetchSecret((GetDataMessage) message));
```

```
*             } else {
```

```
*
```

```
fail();
```

```
*     }
```

```
* }
```

```
* }
```

```
* ...
```

```
* }
```

```

* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which
* is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         {@link Channel} ch = ctx.channel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ch.write(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }

```

```

    }
*   }
*   }
*   ...
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race
* condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

```

Found in path(s):

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelHandler.java

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Found in path(s):

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/DefaultEventLoopGroup.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/FixedRecvByteBufAllocator.java

\*

/opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/embedded/package-info.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/MultithreadEventLoopGroup.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/group/ChannelGroupFuture.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/local/LocalServerChannel.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelException.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/nio/AbstractNioByteChannel.java

\*

/opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/local/LocalChannel.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelConfig.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-

```

jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/local/LocalEventLoopGroup.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/package-info.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/Channel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DatagramChannelConfig.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AbstractServerChannel.java

```



```

* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ServerChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/package-info.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelMetadata.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-

```

```

jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/AbstractNioMessageChannel.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AbstractChannelHandlerContext.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/FailedChannelFuture.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelOption.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/NioEventLoop.java

```

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* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DatagramChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/SocketChannelConfig.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/AbstractNioChannel.java
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\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java  
\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java  
\*

/opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelFactory.java  
\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java  
\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java

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\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/DefaultChannelHandlerContext.java

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```
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/ChannelPoolHandler.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/pool/FixedChannelPool.java
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jar/io/netty/channel/CoalescingBufferQueue.java

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jar/io/netty/channel/ChannelProgressiveFutureListener.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-  
jar/io/netty/channel/DefaultChannelId.java

\*

/opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-  
jar/io/netty/channel/group/ChannelMatcher.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-

```

jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultAddressedEnvelope.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelOutboundBuffer.java

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* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/WriteBufferWaterMark.java
*
/opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-  
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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/opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-  
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java

\* /opt/cola/permits/1112470221\_1607093049.81/0/netty-transport-4-1-17-final-sources-1-

```
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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jar/io/netty/channel/oio/OioByteStreamChannel.java
```

## 1.442 d3-delaunay 5.3.0

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# 1.443 okhttp 3.12.1

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Found in path(s):

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-

jar/okhttp3/internal/annotations/EverythingIsNonNull.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-

jar/okhttp3/internal/proxy/NullProxySelector.java

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Found in path(s):

```
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/EventListener.java
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```
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/ConnectionShutdownException.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/StreamResetException.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/cache2/FileOperator.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/ws/RealWebSocket.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/platform/Jdk9Platform.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/WebSocketListener.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http/CallServerInterceptor.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http/RealInterceptorChain.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
```

jar/okhttp3/internal/http/UnrepeatableRequestBody.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/WebSocket.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/cache2/Relay.java  
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\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/RequestLine.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Http2.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/ErrorCode.java  
\*  
/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Response.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Handshake.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Route.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/StatusLine.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/connection/RouteDatabase.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/cache/InternalCache.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/cache/CacheStrategy.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Request.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Dispatcher.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/NamedRunnable.java  
\*

/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/MediaType.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Hpack.java  
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* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/cache/DiskLruCache.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/Http2Reader.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/Http2Connection.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/Http2Stream.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/HttpDate.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/Http2Writer.java
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\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/connection/RealConnection.java

\*

/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/ConnectionPool.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Headers.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/tls/DistinguishedNameParser.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/tls/OkHostnameVerifier.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/tls/CertificateChainCleaner.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/platform/OptionalMethod.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/connection/ConnectInterceptor.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/BridgeInterceptor.java

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Connection.java

\*

/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/cache/CacheInterceptor.java

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* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Huffman.java
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```
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/MultipartBody.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/http2/PushObserver.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/ResponseBody.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/cache/CacheRequest.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Challenge.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Call.java
```



\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/CertificatePinner.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Header.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/ws/WebSocketReader.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Credentials.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Protocol.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/ws/WebSocketProtocol.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/RealCall.java  
\*  
/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/ConnectionSpec.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/RealResponseBody.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/FormBody.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Interceptor.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/TlsVersion.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/CipherSuite.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Callback.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/HttpMethod.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/Internal.java  
\*  
/opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/RequestBody.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java  
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* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/connection/StreamAllocation.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Authenticator.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Cookie.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/HttpUrl.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/connection/RouteException.java
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* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Settings.java
* /opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-
jar/okhttp3/internal/connection/RouteSelector.java
*
/opt/cola/permits/1113081426_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/OkHttpClient.java
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\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/HttpHeaders.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Address.java  
\*  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http2/Http2Codec.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http1/Http1Codec.java  
\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/internal/http/HttpCodec.java

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Found in path(s):

\* /opt/cola/permits/1113081426\_1607374231.22/0/okhttp-3-12-1-sources-1-jar/okhttp3/Cache.java

## 1.444 spring-security-cas 3.2.4.RELEASE

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```

Found in path(s):

```
* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/SpringCacheBasedTicketCache.java
No license file was found, but licenses were detected in source scan.
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Found in path(s):

```
* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/StatelessTicketCache.java
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Found in path(s):

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetails.java  
\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetailsSource.java  
\*

/opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/web/authentication/DefaultServiceAuthenticationDetails.java

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Found in path(s):

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/authentication/EhCacheBasedTicketCache.java

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/web/CasAuthenticationFilter.java  
\*

/opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/SamlServiceProperties.java

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/ServiceProperties.java

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/authentication/NullStatelessTicketCache.java

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/userdetails/GrantedAuthorityFromAssertionAttributesUserDetailsService.java

\* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-  
jar/org/springframework/security/cas/authentication/CasAuthenticationProvider.java

```

* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/web/CasAuthenticationEntryPoint.java
*
/opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/userdetails/AbstractCasAssertionUserDetailsService.java
* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/CasAuthenticationToken.java
* /opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-
jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java

```

## 1.445 xmltooling 1.4.4

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* limitations under the License.
*/
/**
* Encodes and decodes to and from Base64 notation.
*
* <p>
* Change Log:
*
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
for reading
* and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.

```

- \* Generally things are cleaner. You'll probably have to change some method calls that you were making to support the
- \* new options format (<tt>int</tt>s that you "OR" together).</li>
- \* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using
- \* <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream
- \* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML
- \* file).</li>
- \* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP
- \* streams. Added the ability to GZip-compress objects before encoding them.</li>
- \* <li>v1.4 - Added helper methods to read/write files.</li>
- \* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
- \* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.</li>
- \* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
- \* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
- \* </ul>
- \* <p>
- \* I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or warranties but with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
- \* </p>
- \* <p>
- \* @author Robert Harder
- \* @author rob@iharder.net
- \* @version 2.1
- \* /

Found in path(s):

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/Base64.java

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Found in path(s):

- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/NamespaceManager.java
- \*
- /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509SKI.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509CredentialNameEvaluator.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeImpl.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/criteria/EvaluableEntityIDCredentialCriteria.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/Resolver.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/OriginatorKeyInfo.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformMarshaller.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptionPropertyMarshaller.java
- \*
- /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/UnmarshallerFactory.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/LazyList.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509DigestCriteria.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AbstractElementExtensibleXMLObjectMarshaller.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/Exponent.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IndexingObjectStore.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/BaseXMLObjectMarshaller.java
- \*
- /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/KeyInfoReferenceSchemaValidator.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/UsageType.java
- \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/X509CertificateBuilder.java



\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/StaticKeyInfoGenerator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/XMLParserException.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/SPKISexpBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeMarshaller.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509IssuerSerial.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignatureTrustEngine.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLObjectBuilderFactory.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/InlineEncryptedKeyResolver.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/KANonce.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveImpl.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/TransformsUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/PgenCounter.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLObjectHelper.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyPacketImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/Pair.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionMethod.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/criteria/EntityIDCriteria.java  
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 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityHelper.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/PGPDataSchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/CollectionCredentialResolver.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/DataReference.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/KeySizeBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/URIContentReference.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/RecipientKeyInfoMarshaller.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/criteria/EvaluableKeyAlgorithmCredentialCriteria.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/XMLObjectChildrenList.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PGPKeyPacketBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/DigestMethod.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoCriteria.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/XMLConfigurator.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/Version.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/EncryptionProperties.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/CipherReferenceMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/DatatypeHelper.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/KeyInfoReferenceMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/ExplicitKeySignatureTrustEngine.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/X509IssuerSerialSchemaValidator.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSInteger.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/PImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/PublicKeyImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/JImpl.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/validator/CryptoBinarySchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/impl/DHKeyValueBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/DigestMethodUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/trust/ExplicitX509CertificateTrustEngine.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSSStringBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/x509/X500DNHandler.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/credential/StaticCredentialResolver.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/CriteriaSet.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/util/XMLConstants.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/x509/X509SubjectKeyIdentifierCriteria.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/X509CRLBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/DigestMethodImpl.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/util/AbstractSimpleSingletonFactory.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSBooleanUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/keyinfo/KeyInfoCredentialResolver.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
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 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
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jar/org/opensaml/xml/encryption/EncryptionException.java
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 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/XMLRuntimeException.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/PublicKeyBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/keyinfo/provider/DEREncodedKeyValueProvider.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-

```

jar/org/opensaml/xml/encryption/impl/TransformsImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/AbstractExtensibleXMLObject.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/DocumentInternalIDContentReference.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/CipherValueImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/RSAKeyValue.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/parse/ClasspathResolver.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/CipherReferenceBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/credential/criteria/EvaluableX509CertSelectorCredentialCriteria.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/CarriedKeyNameBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/KANonceImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/util/AbstractWrappedSingletonFactory.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/NamedCurve.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/schema/impl/XSBase64BinaryUnmarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/EncryptedDataBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/X509CRL.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/ReferenceListBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/ElementExtensibleXMLObject.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/schema/XSBoolean.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/CarriedKeyName.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/keyinfo/KeyInfoResolutionContext.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/validator/DSAKeyValueSchemaValidator.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/RSAKeyValueBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/X509SerialNumber.java

```

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/SignatureBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/DSAKeyValue.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/AttributeExtensibleXMLObject.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSDateTimeBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/impl/DataReferenceMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/DefaultSecurityConfigurationBootstrap.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/validator/SPKIDataSchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/x509/X509Util.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/Q.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/keyinfo/CollectionKeyInfoCredentialResolver.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/x509/PKIXTrustEngine.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/impl/KeyReferenceUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/KeyInfoReferenceImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSBase64BinaryBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/PgenCounter.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/AbstractSignableXMLObject.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSBooleanMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/io/AbstractXMLObjectUnmarshaller.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/PGPKeyIDImpl.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/AgreementMethod.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/MgmtDataBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/X509SubjectName.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-

```

jar/org/opensaml/xml/signature/validator/X509SerialNumberSchemaValidator.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/x509/X509Credential.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/Public.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/PBuilder.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/criteria/PublicKeyCriteria.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/schema/impl/XSQNameBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/validator/SignatureSchemaValidator.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/Seed.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/RetrievalMethodUnmarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/keyinfo/provider/RSAKeyValueProvider.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/SimpleKeyInfoReferenceEncryptedKeyResolver.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/SPKIDataMarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/GImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/SPKIDataUnmarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/QImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/DataReferenceUnmarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/PBuilder.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/CryptoBinary.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/AbstractValidatingSignableXMLObject.java
*
/opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/credential/criteria/EvaluableX509SubjectNameCredentialCriteria.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/BaseBearing.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/trust/ChainingTrustEngine.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/keyinfo/BasicProviderKeyInfoCredentialResolver.java

```

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/Seed.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/validator/KeySizeSchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/credential/criteria/EvaluableKeyNameCredentialCriteria.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/KeyName.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/XSQName.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/XMLSignatureCredentialContext.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/AbstractXMLSignatureMarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/KeyInfoReferenceUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/impl/XSBase64BinaryImpl.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/x509/BasicX509Credential.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/schema/XSBase64Binary.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/encryption/CipherData.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/PGPKeyPacket.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/security/credential/BasicKeyInfoGeneratorFactory.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/TransformUnmarshaller.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/KeyValue.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/util/IndexedXMLObjectChildrenList.java  
 \*  
 /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/KeyInfoReferenceBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/validator/RSAKeyValueSchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/validator/TransformsSchemaValidator.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/signature/impl/SPKIDataBuilder.java  
 \* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-



jar/org/opensaml/xml/security/trust/TrustedCredentialTrustEngine.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
jar/org/opensaml/xml/signature/impl/NamedCurveMarshaller.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
jar/org/opensaml/xml/schema/XSBooleanValue.java  
No license file was found, but licenses were detected in source scan.

#### Schema for XML Signatures

<http://www.w3.org/2000/09/xmldsig#>  
\$Revision: 1.2 \$ on \$Date: 2005/06/03 03:09:54 \$ by \$Author: cantor \$

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#### Found in path(s):

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/schema/xmldsig-core-schema.xsd  
No license file was found, but licenses were detected in source scan.

```
#  
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```

#### Found in path(s):

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/schema/xenc11-schema.xsd

## 1.446 yang-common 0.8.4-Beryllium-SR4

### 1.446.1 Available under license :

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## 1.447 mibble-commercial-mibs 2.9.3

### 1.447.1 Available under license :

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```
SNA-NAU-MIB DEFINITIONS ::= BEGIN
```

```
-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7. It also contains generic objects
-- which can be used to manage LU 6.2.

-- Naming conventions in this document:
-- The following names are used in object descriptors according to
-- SNA conventions.
-- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
-- 2.1.
-- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
-- 4,7 or 6.2.
```

```
IMPORTS
```

```
    DisplayString, RowStatus, TimeStamp, InstancePointer
    FROM SNMPv2-TC
```

```
    Counter32, Gauge32, Integer32, mib-2,
    OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
    FROM SNMPv2-SMI
```

```
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF;
```

```
snanauMIB MODULE-IDENTITY
    LAST-UPDATED "9405120900Z"
```

ORGANIZATION "IETF SNA NAU MIB Working Group"

CONTACT-INFO

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Kitty Shih (editor)  
Novell  
890 Ross Drive  
Sunnyvale, CA 94089  
Tel: 1 408 747 4305  
E-mail: kmshih@novell.com"

DESCRIPTION

"This is the MIB module for objects used to  
manage

SNA devices."

::= { mib-2 34 }

- The SNANAU MIB module contains an objects part and a conformance part.
- Objects are organized into the following groups:
- (1)snaNode group,
- (2)snaLU group,
- (3)snaMgtTools group.

snanauObjects OBJECT IDENTIFIER ::= { snanauMIB 1 }

snaNode OBJECT IDENTIFIER ::= { snanauObjects 1 }

snaLu OBJECT IDENTIFIER ::= { snanauObjects 2 }

snaMgtTools OBJECT IDENTIFIER ::= { snanauObjects 3 }

-- \*\*\*\*\*  
-- snaNode group  
--  
-- It contains Managed Objects related to any type of Node and  
-- some specific objects for Node Type 2.0.  
-- \*\*\*\*\*

```
-- *****
-- The following table contains generic Node configuration
-- parameters.
-- *****
```

snaNodeAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects which describe the configuration parameters for an SNA Node. Link specific configuration objects are contained in a separate MIB module (e.g., SNA DLC MIB) corresponding to the link type.

The table snaNodeAdminLinkTable contains objects which identify the relationship between node instances and link instances.

The entries (i.e., rows) in this table can be created by either an Agent or a Management Station. The Management Station can do this through setting the appropriate value in the snaNodeAdminRowStatus.

The snaNodeAdminRowStatus object describes the status of an entry and is used to change the status of an entry. The entry is deleted by an Agent based on the value of the snaNodeAdminRowStatus.

The snaNodeAdminState object describes the desired operational state of a Node and is used to change the operational state of a Node. For example, such information may be obtained from a configuration file.

How an Agent or a Management Station obtains the initial value of each object at creation time is an implementation specific issue.

For each entry in this table, there is a corresponding entry in the snaNodeOperTable.

While the objects in this table describe the desired or configured operational values of the SNA Node, the actual runtime values are contained in snaNodeOperTable."

::= { snaNode 1 }

snaNodeAdminEntry OBJECT-TYPE

SYNTAX SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains the configuration parameters for one SNA Node instance. The objects in the entry have read-create access.

An entry can be created, modified or deleted. The object snaNodeAdminRowStatus is used (i.e., set) to create or delete a row entry."

INDEX { snaNodeAdminIndex }

::= { snaNodeAdminTable 1 }

SnaNodeAdminEntry ::= SEQUENCE {

snaNodeAdminIndex

Integer32,

snaNodeAdminName

DisplayString,

snaNodeAdminType

INTEGER,

snaNodeAdminXidFormat

INTEGER,

snaNodeAdminBlockNum

DisplayString,

snaNodeAdminIdNum

DisplayString,

snaNodeAdminEnablingMethod

INTEGER,

snaNodeAdminLuTermDefault

INTEGER,

snaNodeAdminMaxLu

Integer32,

snaNodeAdminHostDescription

DisplayString,

snaNodeAdminStopMethod

INTEGER,

snaNodeAdminState

INTEGER,

snaNodeAdminRowStatus

RowStatus

}

snaNodeAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index used to uniquely identify each Node instance.  
If an Agent creates the entry, then it will assign  
this number otherwise a Management Station  
generates a random number when it reserves the  
entry for creation."

::= { snaNodeAdminEntry 1 }

snaNodeAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired name of the  
Node for use during Node activation.

In Type 2.1 networks, this is a fully-qualified name,  
meaning that the Node name is preceded by the NetId (if  
present) with a period as the delimiter.

A write operation to this object will  
not change the operational value reflected  
in snaNodeOperName until the Node has  
been re-activated (e.g., after the next initialization  
of the SNA services)."

::= { snaNodeAdminEntry 2 }

snaNodeAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),  
pu10(2),  
pu20(3),  
t21len(4),  
endNode(5),  
networkNode(6)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of SNA Node.

A write operation to this object will  
not change the operational value reflected

in snaNodeOperType until the Node has  
been re-activated (e.g., after the next initialization  
of the SNA services)."

::= { snaNodeAdminEntry 3 }

snaNodeAdminXidFormat OBJECT-TYPE

SYNTAX INTEGER {

format0(1),

format1(2),

format3(3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of XID format used for this Node. Note that there is no format type 2.

A write operation to this object will not change the operational value reflected in snaNodeOperAdminXidFormat until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The value indicates the block number for this Node instance. It is the first 3 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in snaNodeOperBlockNum until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id.

A write operation to this object will

not change the operational value reflected in snaNodeOperIdNum until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 6 }

snaNodeAdminEnablingMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),  
startup (2),  
demand (3),  
onlyMS (4)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates how the Node should be activated for the first time.

The values have the following meanings:

other (1) - may be used for proprietary methods not listed in this enumeration,  
startup (2) - at SNA services' initialization time (this is the default),  
demand (3) - only when LU is requested by application,  
or  
onlyMS (4) - by a Management Station only.

A write operation

to this object may immediately

change the operational value reflected in snaNodeOperEnablingMethod depending on the Agent implementation. If the Agent implementation accepts immediate changes, then the behavior of the Node changes immediately and not only after the next system startup of the SNA services.

An immediate change may only apply when the current value 'demand (3)' is changed to 'onlyMS (4)' and vice versa."

::= { snaNodeAdminEntry 7 }

snaNodeAdminLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff(4)  
}



MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired default method used to deactivate LUs for this Node. For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU

session or an SNA NOTIFY request on

the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

The default behavior indicated by the value of this object may be overridden for an LU instance. The override is performed by setting the snaLuAdminTerm object instance in the snaLuAdminTable to the desired value.

A write operation to this object may immediately change the operational value reflected in snaNodeOperLuTermDefault depending on the Agent implementation."

::= { snaNodeAdminEntry 8 }

snaNodeAdminMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of LUs that may be activated for this Node. For PU2.1, this object

refers to the number of dependent LUs.

A write operation to this object will not change the operational value reflected in `snaNodeOperMaxLu` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaNodeAdminEntry 9` }

`snaNodeAdminHostDescription` OBJECT-TYPE

SYNTAX `DisplayString (SIZE(0..128))`

MAX-ACCESS `read-create`

STATUS `current`

DESCRIPTION

"The value identifies the remote host associated with this Node.

Since SSCP Id's may not be unique across hosts, the host description is required to uniquely identify the SSCP.

This object

is only applicable to PU2.0 type

Nodes. If the remote host is unknown, then the value is the null string.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperHostDescription` depending on the Agent implementation."

::= { `snaNodeAdminEntry 10` }

`snaNodeAdminStopMethod` OBJECT-TYPE

SYNTAX `INTEGER {`

`other (1),`

`normal (2),`

`immed (3),`

`force (4)`

`}`

MAX-ACCESS `read-create`

STATUS `current`

DESCRIPTION

"The value indicates the desired method to be used by the Agent to stop a Node (i.e., change the Node's operational state to `inactive(1)` ).

The values have the following meaning:

`other (1)` - used for proprietary

methods not listed in this enumeration.

normal(2) - deactivate only when there is no more activity on this Node (i.e., all data flows have been completed and all sessions have been terminated).

immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.

force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperStopMethod`

depending

on the Agent implementation."

::= { `snaNodeAdminEntry 11` }

`snaNodeAdminState` OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),

active (2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the SNA Node. This object is used by the Management Station to activate or deactivate the Node.

If the current value in `snaNodeOperState` is 'active (2)', then setting this object to 'inactive (1)' will initiate the Node shutdown process using the method indicated by `snaNodeOperStopMethod`.

If the current value in `snaNodeOperState` is 'inactive (1)', then setting this object to 'active (2)

will initiate the

Node's activation.

A Management Station can always set this object to 'active (2)' irrespective of the value in the

```
snaOperEnablingMethod."  
::= { snaNodeAdminEntry 12 }
```

#### snaNodeAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaNodeAdminTable following the RowStatus textual convention.

Upon successful creation of the row, an Agent automatically creates a corresponding entry in the snaNodeOperTable with snaNodeOperState equal to 'inactive (1)'.  
  
Row deletion can be Management Station or Agent initiated:

(a) The Management

Station can set the value to

'destroy (6)' only when the value of snaNodeOperState of this Node instance is 'inactive (1)'. The Agent will then delete the rows corresponding to this Node instance from the snaNodeAdminTable and the snaNodeOperTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a default period of 5 minutes.

(c) All rows with the snaNodeAdminRowStatus object's value of 'notReady (3)' will be removed upon the next initialization of the SNA services."

```
::= { snaNodeAdminEntry 13 }
```

```
-- *****  
-- The following object is updated when there is a change to  
-- the value of any object in the snaNodeAdminTable.  
-- *****
```

#### snaNodeAdminTableLastChange

##### OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value indicates the timestamp

(e.g., the Agent's sysUpTime value) of the last change made to any object in the snaNodeAdminTable, including row deletions/additions (e.g., changes to snaNodeAdminRowStatus values).

This object can be used to reduce frequent retrievals of the snaNodeAdminTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node configuration information has been changed. Only then will the Management Station retrieve the entire table."

```
::= { snaNode  
2 }
```

```
-- *****  
-- The following table contains Node operational parameters.  
-- *****
```

#### snaNodeOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which have read-only access. These objects reflect the actual status of the Node. The entries in this table cannot be created or modified by a Management Station.

This table augments the snaNodeAdminTable."

```
::= { snaNode 3 }
```

#### snaNodeOperEntry OBJECT-TYPE

SYNTAX SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the state of

one Node. The entries are created by the

Agent. They have read-only access."

AUGMENTS { snaNodeAdminEntry }

```
::= { snaNodeOperTable 1 }
```

```
SnaNodeOperEntry ::= SEQUENCE {
```

```
snaNodeOperName
```

```

    DisplayString,
snaNodeOperType
    INTEGER,
snaNodeOperXidFormat
    INTEGER,
snaNodeOperBlockNum
    DisplayString,
snaNodeOperIdNum
    DisplayString,
snaNodeOperEnablingMethod
    INTEGER,
snaNodeOperLuTermDefault
    INTEGER,
snaNodeOperMaxLu
    Integer32,
snaNodeOperHostDescription
    DisplayString,
snaNodeOperStopMethod
    INTEGER,
snaNodeOperState
    INTEGER,
snaNodeOperHostSscpId
    OCTET STRING,
snaNodeOperStartTime
    TimeStamp,
snaNodeOperLastStateChange
    TimeStamp,
snaNodeOperActFailures
    Counter32,
snaNodeOperActFailureReason
    INTEGER
}

```

snaNodeOperName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current name of the Node.

In Type 2.1 networks, this

is a fully-qualified name, meaning that the Node name

is preceded by the NetId (if present) with a period

as the delimiter."

::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

```
    pu10(2),
    pu20(3),
    t21LEN(4),
    endNode(5),
    networkNode(6)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the current type of the Node."
 ::= { snaNodeOperEntry 2 }
```

snaNodeOperXidFormat OBJECT-TYPE

```
SYNTAX INTEGER {
    format0 (1),
    format1 (2),
    format3 (3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the type of XID format currently
    used for this Node.
    Note that there is no format type 2."
 ::= { snaNodeOperEntry 3 }
```

snaNodeOperBlockNum OBJECT-TYPE

```
SYNTAX DisplayString (SIZE(3))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the block number for this Node
    instance. It is the first 3 hexadecimal digits
    of the SNA Node id."
 ::= { snaNodeOperEntry 4 }
```

snaNodeOperIdNum OBJECT-TYPE

```
SYNTAX DisplayString (SIZE(5))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the ID number for this Node
    instance. This is the last 5 hexadecimal digits of
    the SNA Node id."
 ::= { snaNodeOperEntry 5 }
```

snaNodeOperEnablingMethod OBJECT-TYPE

```
SYNTAX INTEGER {
```

other (1),  
startup (2),  
demand (3),  
onlyMS (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates how the Node is activated for the first time.

The values have the following meanings:

other (1) - not at boot time, LU activation  
or by a Management Station;

startup (2) - at SNA services' initialization  
time (this is the default),

demand (3) - only when LU is requested by  
application,  
onlyMS (4) - by a network Management Station  
only."

::= { snaNodeOperEntry 6 }

snaNodeOperLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the default method used to deactivate LUs for this Node.

For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending  
an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending  
an SNA TERM-SELF (Terminate Self) request on  
the SSCP-LU session. The SSCP will inform

the

remote session LU partner to send an UNBIND  
request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending  
an SNA RSHUTD (Request ShutDown) request to  
the remote session LU partner. The remote LU  
will then send an UNBIND request to terminate



the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

This object describes the default behavior for this Node; however, it is possible that for a specific LU the behavior indicated by the snaLuOperTerm object is different."

::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current, maximum number of LUs that are activated for this Node. For PU2.1, this object refers to the number of dependent LUs."

::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the remote host currently associated with this Node. Since SSCP Id's may not be unique across hosts, the

host description

is required to uniquely identify the SSCP."

::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),

normal (2),

immed (3),

force (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current Node shutdown method to be used by the Agent to stop the Node. When the Agent changes the Node's state to 'inactive (1)', the Agent must use the shutdown method indicated by this object.

The values have the following meaning:

other (1) - proprietary method not listed in this enumeration  
normal(2) - deactivate only when there is no more activity on this Node (i.e., all

data flows

have been completed and all sessions have been terminated).

immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.

force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

Note that a write operation to snaNodeAdminOperStopMethod may immediately change the value of snaNodeOperStopMethod depending on the Agent implementation."

::= { snaNodeOperEntry 10 }

snaNodeOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),  
active (2),  
waiting (3),  
stopping (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Node.  
The values have the following meanings:  
inactive (1), a row representing the Node has been created in the AdminTable  
and, the Node is ready for activation -or-

an active Node has been stopped -or-  
a waiting Node has returned to the inactive  
state.  
waiting (3), a request to have the Node activated  
has been issued, and the Node is pending  
activation.  
active (2), the Node is ready and operating.  
stopping (4), the request to stop the Node has  
been  
issued while the StopMethod normal  
or immediate is used."  
::= { snaNodeOperEntry 11 }

snaNodeOperHostSscpId OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..6))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current SSCP Id  
associated with the Node. This object is only  
applicable to PU 2.0s. If the Node  
is not a PU 2.0 type, then this object contains a  
zero length string."

::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g, the Agent's sysUpTime value)  
at the Node activation."

::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)  
at the last state change of the Node."

::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the number of failed Node activation attempts."

::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE

SYNTAX INTEGER {

- other (1),
- linkFailure (2),
- noResources (3),
- badConfiguration (4),
- internalError (5)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the reason for the activation failure. The value 'other (1)' indicates a reason not

listed in the enumeration. This object will be sent in the trap snaNodeActFailTrap."

::= { snaNodeOperEntry 16 }

-- \*\*\*\*\*

-- The following object is updated when there is a change to

-- the value of snaNodeOperState in any row or a row is

-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.

-- \*\*\*\*\*

snaNodeOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) at the last change made to any object in the snaNodeOperTable, including row deletions/additions made as a result of changes to the snaNodeAdminRowStatus object.

This object can be used to reduce frequent retrievals of the snaNodeOperTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node operational information

has been changed. Only then will the Management Station retrieve the entire table."  
::= { snaNode 4 }

-- \*\*\*\*\*  
-- The following table contains PU 2.0 statistics dynamic parameters.  
-- \*\*\*\*\*

snaPu20StatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which have read-only access. The entries in this table correspond

to PU 2.0 entries in the snaNodeOperTable

and cannot be created by a Management Station."

::= { snaNode 5 }

snaPu20StatsEntry OBJECT-TYPE

SYNTAX SnaPu20StatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the statistics for one PU 2.0. They have read-only access.

The counters represent traffic for all kinds of sessions: LU-LU, SSCP-PU, SSCP-LU.

Each Node of PU Type 2.0 from the snaNodeAdminTable has one entry in this table and the index used here has the same value as snaNodeAdminIndex of that PU. The entry is created by the Agent."

INDEX { snaNodeAdminIndex }

::= { snaPu20StatsTable 1 }

SnaPu20StatsEntry ::= SEQUENCE {

snaPu20StatsSentBytes

Counter32,

snaPu20StatsReceivedBytes

Counter32,

snaPu20StatsSentPius

Counter32,

snaPu20StatsReceivedPius

Counter32,

```
snaPu20StatsSentNegativeResps
    Counter32,
snaPu20StatsReceivedNegativeResps
    Counter32,
snaPu20StatsActLus
    Gauge32,
snaPu20StatsInActLus
    Gauge32,
snaPu20StatsBindLus
    Gauge32
}
```

```
snaPu20StatsSentBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of bytes sent by this Node."
    ::= { snaPu20StatsEntry 1 }
```

```
snaPu20StatsReceivedBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of bytes received by this Node."
    ::= { snaPu20StatsEntry
2 }
```

```
snaPu20StatsSentPius OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of PIUs sent by this Node."
    ::= { snaPu20StatsEntry 3 }
```

```
snaPu20StatsReceivedPius OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of PIUs received by this Node."
    ::= { snaPu20StatsEntry 4 }
```

```
snaPu20StatsSentNegativeResps OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
```

STATUS current  
DESCRIPTION  
"The number of negative responses sent  
by this Node."  
::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of negative responses received  
by this Node."  
::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE  
SYNTAX Gauge32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of LUs on this PU which have  
received and responded to ACTLU from the host."  
::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE  
SYNTAX Gauge32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of LUs on this PU which have  
not received an ACTLU from the host. This is  
possible if the number of configured LUs exceeds  
that on the host."  
::= { snaPu20StatsEntry 8 }

snaPu20StatsBindLus OBJECT-TYPE  
SYNTAX Gauge32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of LUs on this PU which have  
received and acknowledged  
a BIND request from the  
host."  
::= { snaPu20StatsEntry 9 }

-- \*\*\*\*\*

-- The following table contains the association between Nodes and  
 -- link identifiers.  
 -- It is used for configuration purposes.  
 -- \*\*\*\*\*

snaNodeLinkAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the references to link specific tables. If a Node is configured for multiple links, then the Node will have multiple entries in this table.

The entries in this table can be generated initially, after initialization of SNA service, by the Agent which uses information from Node configuration file.

Subsequent modifications of parameters, creation of new Nodes link entries and deletion of entries is possible.

The modification to this table can be saved in the Node configuration file for the next initialization of SNA service, but the mechanism for this function is not defined here."

::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE

SYNTAX SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry contains the configuration information that associates a Node instance to one link instance.

The objects in the entry have read-create access.

Entry can be created, modified or deleted.

The object snaNodeLinkAdminRowStatus is used (set) to create or delete an entry.

The object

snaNodeLinkAdminSpecific can be set

later, after the entry has been created."

INDEX { snaNodeAdminIndex,  
 snaNodeLinkAdminIndex }

::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {

snaNodeLinkAdminIndex



```
Integer32,
snaNodeLinkAdminSpecific
InstancePointer,
snaNodeLinkAdminMaxPiu
Integer32,
snaNodeLinkAdminRowStatus
RowStatus
}
```

snaNodeLinkAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value is used to index the instances of objects.

If an Agent creates the entry, then it will assign this number otherwise a Management Station generates a random number when it reserves the entry for creation."

::=

{ snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE

SYNTAX InstancePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value points to the row in the table containing information on the link instance. (e.g., the sdlcLSAdminTable of the SNA DLC MIB module)."

::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the maximum number of octets that can be exchanged by this Node in one Path Information Unit (PIU)."

::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaNodeLinkAdminTable. To activate a row, a Management Station sets the value to 'active (1)' or 'notReady (3)'. Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaNodeLinkOperTable.

Row deletion can be Management Station or Agent initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaNodeLinkOperState of this Link instance is 'inactive (1)'. The Agent will then delete the row corresponding to this Link instance from snaNodeLinkOperTable and from snaNodeLinkAdminTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a

default period of 5 minutes.

(c) The Agent will not include a row with RowStatus='notReady (3)', after SNA system re-initialization (e.g., reboot)."

```
::= { snaNodeLinkAdminEntry 4 }
```

```
-- *****  
-- The following object is updated when there is a change to  
-- the value of any object in the snaNodeLinkAdminTable.  
-- *****
```

snaNodeLinkAdminTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) at the last change made to any object in the snaNodeLinkAdminTable, including row deletions/additions (i.e., changes to the snaNodeLinkAdminRowStatus object).

This object can be used to reduce frequent retrievals of the snaNodeLinkAdminTable by a Management Station. It is expected that a

Management Station will periodically poll this object and compare its current value with the previous one.

A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."

::= { snaNode 7 }

```
-- *****  
-- The following table contains the association between  
-- Nodes and link identifiers.  
-- It provides the current status.  
-- *****
```

snaNodeLinkOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains all references

to link

specific tables for operational parameters.

If a Node is configured for multiple links, then the Node will have multiple entries in this table. This table augments the snaNodeLinkAdminTable."

::= { snaNode 8 }

snaNodeLinkOperEntry OBJECT-TYPE

SYNTAX SnaNodeLinkOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry contains all current parameters for one Node link. The objects in the entry have read-only access."

AUGMENTS { snaNodeLinkAdminEntry }

::= { snaNodeLinkOperTable 1 }

SnaNodeLinkOperEntry ::= SEQUENCE {

snaNodeLinkOperSpecific

InstancePointer,

snaNodeLinkOperMaxPiu

Integer32

}

snaNodeLinkOperSpecific OBJECT-TYPE

SYNTAX InstancePointer  
 MAX-ACCESS  
 read-only  
 STATUS current  
 DESCRIPTION  
 "This value points to the row in the table  
 containing information on the link instance.  
 (e.g., the sdlcLSOperTable of  
 the SNA DLC MIB module)."  
 ::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE

SYNTAX Integer32  
 MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "Maximum number of octets that can  
 be exchanged by this Node in one Path  
 Information Unit (PIU)."  
 ::= { snaNodeLinkOperEntry 2 }

-- \*\*\*\*\*  
 -- The following object is updated when a row is added/deleted  
 -- from the snaNodeLinkOperTable.  
 -- \*\*\*\*\*

snaNodeLinkOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp  
 MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "The timestamp of the last  
 change made to any object in the snaNodeLinkOperTable,  
 including row deletions/additions.  
 This object can be used to reduce frequent  
 retrievals of the snaNodeLinkOperTable by a  
 Management Station. It is expected that a  
 Management Station will periodically poll this  
 object and compare its current value with the  
 previous one.  
 A difference indicates that some Node operational  
 information has been changed. Only then will the  
 Management Station retrieve the entire table."  
 ::= { snaNode 9 }

```

-- *****
-- Traps
-- *****

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap
NOTIFICATION-TYPE
    OBJECTS { snaNodeOperName,
              snaNodeOperState }
    STATUS current
    DESCRIPTION
        "This trap indicates that the operational state
        (i.e., value of the snaNodeOperState object) of a Node
        has changed. The following variables are returned:
        snaNodeOperName - current name of the Node,
        with the instance identifying the Node; and,
        snaNodeOperState - current state after
        the change."
    ::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE
    OBJECTS { snaNodeOperName,
              snaNodeOperState,
              snaNodeOperActFailureReason }
    STATUS current
    DESCRIPTION
        "This trap indicates a Node activation failure.
        The value of snaNodeOperState indicates the current
        state after the activation attempt.
        The value of snaNodeOperActFailureReason indicates
        the failure reason."
    ::= { snaNodeTraps 2 }

-- *****
-- snaLu group
--
-- It contains Managed Objects related to LUs in general and some
-- specific for LUs of type 0, 1, 2, 3.
-- *****

-- *****
-- The following table contains LU configuration parameters.
-- *****

snaLuAdminTable OBJECT-TYPE

```

SYNTAX SEQUENCE OF SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains LU configuration information.

The rows in this table can be created and deleted

by a Management Station.

Only objects which are common to all types of LUs

are included in this table."

::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE

SYNTAX SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains configuration variables for an LU."

INDEX { snaNodeAdminIndex, snaLuAdminLuIndex }

::= { snaLuAdminTable 1 }

SnaLuAdminEntry ::= SEQUENCE {

snaLuAdminLuIndex

Integer32,

snaLuAdminName

DisplayString,

snaLuAdminSnaName

DisplayString,

snaLuAdminType

INTEGER,

snaLuAdminDepType

INTEGER,

snaLuAdminLocalAddress

OCTET STRING,

snaLuAdminDisplayModel

INTEGER,

snaLuAdminTerm

INTEGER,

snaLuAdminRowStatus

RowStatus

}

snaLuAdminLuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value identifies the unique index for an

LU instance within a Node."  
 ::= { snaLuAdminEntry 1 }

snaLuAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the user configurable name for this LU. If a name is not assigned to the LU, then this object contains a zero length string.

A write operation to this object will not change the operational value reflected in snaLuOperName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the SNA LU name used in exchange of SNA data.

A write operation to this object will not change the operational value reflected in snaLuOperSnaName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 3 }

snaLuAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

lu0(2),

lu1(3),

lu2(4),

lu3(5),

lu4(6),

lu62(7),

lu7(8)

}

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This value identifies the LU type.

A write operation to this object will not change the operational value reflected in `snaLuOperAdminType` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaLuAdminEntry 4` }

#### `snaLuAdminDepType` OBJECT-TYPE

SYNTAX INTEGER {  
    dependent(1),  
    independent(2)  
}

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This value identifies whether the LU is dependent or independent.

A write operation to this object will not change the operational value reflected in `snaLuOperDepType` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaLuAdminEntry 5` }

#### `snaLuAdminLocalAddress` OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254 and for independent LUs this value is always 0.

A write operation to this object will not change the operational value reflected in `snaLuOperLocalAddress` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaLuAdminEntry 6` }

#### `snaLuAdminDisplayModel` OBJECT-TYPE

SYNTAX INTEGER {  
    invalid(1),  
    model2A(2),



```
model2B(3),
model3A(4),
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object identifies the model type and screen size of the terminal connected to the host.

This

is only valid for LU Type 2. The values have the following meaning:

model2A(2) - Model 2 (24 rows x 80 cols) with base attributes

model2B(3) - Model 2 (24 rows x 80 cols) with extended attributes

model3A(4) - Model 3 (32 rows x 80 cols) with base attributes

model3B(5) - Model 3 (32 rows x 80 cols) with extended attributes

model4A(6) - Model 4 (43 rows x 80 cols) with base attributes

model4B(7) - Model 4 (43 rows x 80 cols) with extended attributes

model5A(8) - Model 5 (27 rows x 132 cols) with base attributes

model5B(9) - Model 5 (27 rows x 132 cols) with extended attributes

dynamic(10) - Screen size determine with

BIND and Read

Partition Query.

In case this LU is not Type 2, then this object should contain the invalid(1) value."

```
::= { snaLuAdminEntry 7 }
```

snaLuAdminTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),

termself (2),

rshutd (3),

poweroff (4)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the desired method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF

(Terminate Self) request on

the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner

will send an UNBIND

to terminate the session.

A write operation to this object may immediately change the operational value reflected in snaLuOperTerm depending on the Agent implementation."

::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaLuAdminTable.

To activate a row, the Management Station sets the

value to 'active (1)' or 'notReady (3)'.

Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaLuOperTable with snaLuOperState equal to 'inactive (1)'.

Row deletion can be Management Station

or Agent

initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaLuOperState of this LU instance is 'inactive (1)'. The Agent will then delete the row corresponding to this LU instance from snaLuAdminTable and from snaLuOperTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a default period of 5 minutes.

(c) The Agent will not create a row with RowStatus equal to 'notReady (3)', after SNA system re-initialization (e.g., reboot)."

::= { snaLuAdminEntry 9 }

-- \*\*\*\*\*  
-- The following table contains LU state dynamic parameters.  
-- \*\*\*\*\*

snaLuOperTable OBJECT-TYPE

SYNTAX

SEQUENCE OF SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains dynamic runtime information and control variables relating to LUs.

Only objects which are common to all types of LUs are included in this table. This table augments the snaLuAdminTable."

::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE

SYNTAX SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains objects reflecting current information for an LU.

Each entry is created by the Agent. All entries

```
    have read-only access."
AUGMENTS    { snaLuAdminEntry }
::= { snaLuOperTable 1 }
```

```
SnaLuOperEntry ::= SEQUENCE {
    snaLuOperName
        DisplayString,
    snaLuOperSnaName
        DisplayString,
    snaLuOperType

        INTEGER,
    snaLuOperDepType
        INTEGER,
    snaLuOperLocalAddress
        OCTET STRING,
    snaLuOperDisplayModel
        INTEGER,
    snaLuOperTerm
        INTEGER,
    snaLuOperState
        INTEGER,
    snaLuOperSessnCount
        Gauge32
}
```

```
snaLuOperName OBJECT-TYPE
    SYNTAX DisplayString (SIZE(0..48))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "User configurable name for this LU. If a name
        is not assigned, then this object contains a
        zero length string."
    ::= { snaLuOperEntry 1 }
```

```
snaLuOperSnaName OBJECT-TYPE
    SYNTAX DisplayString (SIZE(1..17))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The value identifies the current SNA LU name."
    ::= { snaLuOperEntry 2 }
```

```
snaLuOperType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),
```

```
    lu0(2),
    lu1(3),
    lu2(4),
    lu3(5),
    lu4(6),
    lu62(7),
    lu7(8)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies the current LU type."
::= { snaLuOperEntry 3 }
```

snaLuOperDepType OBJECT-TYPE

```
SYNTAX INTEGER {
    dependent(1),
    independent(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The value identifies whether the LU is currently
    dependent or independent."

    A write operation to this object will
    not change the operational value reflected
    in snaLuOperDepType until the Node has
    been re-activated (e.g., after the next
    initialization of the SNA services)."
::= { snaLuOperEntry 4 }
```

snaLuOperLocalAddress

```
OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(1))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The local address for this LU is a byte with a value
    ranging from 0 to 254. For dependent LUs, this value
    ranges from 1 to 254; for independent LUs this value
    is always 0."

    A write operation to this object will
    not change the operational value reflected
    in snaLuOperLocalAddress until the Node has
    been re-activated (e.g., after the next
    initialization of the SNA services)."
```

::= { snaLuOperEntry 5 }

#### snaLuOperDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),  
model2A(2),  
model2B(3),  
model3A(4),  
model3B(5),  
model4A(6),  
model4B(7),  
model5A(8),  
model5B(9),  
dynamic(10)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The screen model type of the terminal connected to the host. If this LU is not Type 2, then this object should contain the 'invalid(1)' value."

::= { snaLuOperEntry 6 }

#### snaLuOperTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to

the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also

acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session."

::= { snaLuOperEntry 7 }

snaLuOperState OBJECT-TYPE

SYNTAX INTEGER {  
    inactive (1),  
    active (2)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current operational state of this LU.

It has different meanings for dependent and independent LUs.

For dependent LUs the values indicate the following:

inactive (1) - LU didn't receive ACTLU, or it received DACTLU, or received ACTLU and sent negative response.

active (2) - LU received ACTLU and acknowledged positively.

For independent LUs the values

indicate the following:

active (2) - the LU is defined and is able to send and receive BIND.

inactive (1) - the LU has a session count equal to 0."

::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active LU-LU sessions of this LU.

For the independent LU, if this object has value 0,  
it indicates that LU is inactive."  
::= { snaLuOperEntry 9 }

-- \*\*\*\*\*  
-- The following table contains LU session status parameters.  
-- \*\*\*\*\*

snaLuSessnTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuSessnEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"This is a table containing objects which describe the  
operational state of LU sessions. Only objects which  
are common to all types of LU sessions are included  
in this table.

When a session's snaLuSessnOperState value changes to  
'pendingBind (2)', then the corresponding entry  
in the session table is created by the Agent.

When the session's snaLuSessnOperState value changes to  
'unbound (1)', then the session will be removed from  
the session table by the Agent."

::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE

SYNTAX SnaLuSessnEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"An entry contains dynamic parameters for an LU-LU  
session.

The indices identify the Node, local LU, and remote LU  
for this session."

INDEX { snaNodeAdminIndex,  
snaLuAdminLuIndex,  
snaLuSessnRluIndex,  
snaLuSessnIndex }

::= { snaLuSessnTable 1 }

SnaLuSessnEntry ::= SEQUENCE {

snaLuSessnRluIndex  
Integer32,  
snaLuSessnIndex



```

    Integer32,
snaLuSessnLocalAppName
    DisplayString,
snaLuSessnRemoteLuName
    DisplayString,
snaLuSessnMaxSndRuSize
    INTEGER,
snaLuSessnMaxRcvRuSize
    INTEGER,
snaLuSessnSndPacingSize
    INTEGER,
snaLuSessnRcvPacingSize
    INTEGER,
snaLuSessnActiveTime
    TimeStamp,
snaLuSessnAdminState
    INTEGER,
snaLuSessnOperState
    INTEGER,
snaLuSessnSenseData
    OCTET STRING,
snaLuSessnTerminationRu
    INTEGER,
snaLuSessnUnbindType
    OCTET STRING,
snaLuSessnLinkIndex
    Integer32
}

```

snaLuSessnRluIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value may be used to identify information about the session partner LU in a table of information about remote LUs. Such a table is not defined in this document. If a table of remote LU information is not implemented, or if the table is implemented but it does not contain information about the partner LU for a particular session (as for dependent LU-LU sessions) then this object will have a value of zero."

::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This value identifies the unique index of the session.

It is recommended

that an Agent should not reuse the  
index of a deactivated session for a significant  
period of time (e.g., one week)."

::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The name of the local application using this LU.

If the local application is unknown, then this object  
contains a zero length string."

::= { snaLuSessnEntry 3 }

snaLuSessnRemoteLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"For dependent LUs which are indicated by the  
snaLuOperDepType object containing the value  
'dependent (1)', this object contains the Primary  
LU (PLU) name. For independent LUs,  
this object contains the fully-qualified

remote LU

name of this 6.2 session.

A fully qualified name is an SNA NAU entity name  
preceded by the NetId and a period as the delimiter."

::= { snaLuSessnEntry 4 }

snaLuSessnMaxSndRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The maximum RU size used on this session for sending  
RUs."

::= { snaLuSessnEntry 5 }

snaLuSessnMaxRcvRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The maximum RU size used on this session for receiving RUs."  
 ::= { snaLuSessnEntry 6 }

snaLuSessnSndPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the send pacing window on this session."

::= {  
snaLuSessnEntry 7 }

snaLuSessnRcvPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the receive pacing window on this session."

::= { snaLuSessnEntry 8 }

snaLuSessnActiveTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) when this session becomes active."

::= { snaLuSessnEntry 9 }

snaLuSessnAdminState OBJECT-TYPE

SYNTAX INTEGER {  
unbound (1),  
bound (3)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the session. This object is used to change the operational state of the session.

A Management Station

can only change the operational state of the session to 'unbound (1)'.

Session deactivation:

If a session is in the operational state

'bound (3)' then setting the value of this object to 'unbound (1)' will initiate the session shutdown.

If a session is in the operational state 'pendingBind (2)' then setting the value of this object to 'unbound (1)' will initiate the session shutdown.

If a session is in the operational state 'pendingUnbind (4)' for an abnormally long period of time (e.g., three minutes) then setting the value of this object to 'unbound (1)' will change the session operational state to 'unbound (1)'.

Note: for dependent LUs, deactivating the session is the same as deactivating the LU."

```
::= { snaLuSessnEntry 10 }
```

#### snaLuSessnOperState OBJECT-TYPE

```
SYNTAX INTEGER {  
    unbound (1),  
    pendingBind (2),  
    bound (3),  
    pendingUnbind (4)  
}
```

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value indicates the current operational state of the session.

'unbound (1)' - session has been unbound;  
in this state it will be removed from the session table by the Agent.

'pendingBind (2)' - this state has different meanings for dependent and independent LUs; for dependent LU - waiting for BIND from the host, for independent LU - waiting for BIND response. When a session enters this state, the corresponding entry in the

session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state

when an UNBIND is sent and before the  
rsp(UNBIND) is received."  
::= { snaLuSessnEntry 11 }

snaLuSessnSenseData OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..8))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the sense code when there is  
a BIND failure. It is taken from the negative BIND  
response or UNBIND request.

This is displayed as 8 hexadecimal digits."

::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE

SYNTAX INTEGER {

other (1),

bindFailure (2),

unbind (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the SNA RU that terminated the  
session.

If the session is not in the unbound state, this object  
has a value of 'other (1)'."

::= { snaLuSessnEntry 13 }

snaLuSessnUnbindType OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the session is in the unbound state, and it was  
terminated by an UNBIND, then this object contains  
the UNBIND type value (byte 1 of the UNBIND RU);  
otherwise the string is null."

::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the link over which the session

```

    passes. It is an index into snaNodeLinkAdminTable.
    If the index value is not known,
the value of this
    object shall be zero."
 ::= { snaLuSessnEntry 15 }

-- *****
-- The following table contains LU sessions statistics dynamic
-- parameters.
-- *****

```

```

snaLuSessnStatsTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SnaLuSessnStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains dynamic statistics information
        relating to LU sessions.
        The entries in this table augment the entries in
        the snaLuSessnTable and cannot be created by
        a Management Station."
 ::= { snaLu 4 }

```

```

snaLuSessnStatsEntry OBJECT-TYPE
    SYNTAX SnaLuSessnStatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Contains statistics information for an LU session.

```

```

Each entry is created by the Agent.
    Objects in this table have read-only access.
    Each session from snaLuSessnTable
    has one entry in this table."
AUGMENTS { snaLuSessnEntry }
 ::= { snaLuSessnStatsTable 1 }

```

```

SnaLuSessnStatsEntry ::= SEQUENCE {
    snaLuSessnStatsSentBytes
        Counter32,
    snaLuSessnStatsReceivedBytes
        Counter32,
    snaLuSessnStatsSentRus
        Counter32,
    snaLuSessnStatsReceivedRus
        Counter32,
    snaLuSessnStatsSentNegativeResps

```

```
Counter32,  
snaLuSessnStatsReceivedNegativeResps  
Counter32  
}
```

snaLuSessnStatsSentBytes OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of bytes sent by the local LU."  
 ::= { snaLuSessnStatsEntry 1 }
```

snaLuSessnStatsReceivedBytes OBJECT-TYPE

```
SYNTAX  
Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of bytes received by the local LU."  
 ::= { snaLuSessnStatsEntry 2 }
```

snaLuSessnStatsSentRus OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of RUs sent by the local LU."  
 ::= { snaLuSessnStatsEntry 3 }
```

snaLuSessnStatsReceivedRus OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of RUs received by the local LU."  
 ::= { snaLuSessnStatsEntry 4 }
```

snaLuSessnStatsSentNegativeResps OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of negative responses sent by the  
    local LU."  
 ::= { snaLuSessnStatsEntry 5 }
```

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE

SYNTAX

Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses received by the local LU."

::= { snaLuSessnStatsEntry 6 }

-- \*\*\*\*\*

-- Traps

-- \*\*\*\*\*

snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE

OBJECTS { snaLuOperName, snaLuOperSnaName, snaLuOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state (i.e., snaLuOperState value) of the LU has changed. The value of snaLuOperName indicates the name of the LU. The value of snaLuOperSnaName indicates the SNA name of LU. The value of snaLuOperState indicates the current state after

change."

::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE

OBJECTS { snaLuSessnLocalApplName, snaLuSessnRemoteLuName, snaLuSessnOperState, snaLuSessnSenseData }

STATUS current

DESCRIPTION

"This trap indicates the failure of a BIND. The value of snaLuSessnLocalApplName indicates the local application name. The value of snaLuSessnPartnerName indicates the partner name. The value of snaLuSessnOperState indicates the current state after change. The value of snaLuSessnBindFailureReason



indicates the failure reason.

The Agent should not generate more than 1 trap of this type per minute to minimize the level of management traffic on the network."

::= { snaLuTraps 2 }

-- \*\*\*\*\*

--

snaMgtTools group

--

-- Currently this group contains only one table.

-- \*\*\*\*\*

-- \*\*\*\*\*

-- The following table contains Response Time Monitoring (RTM)  
-- configuration information and statistics for LU Type 2s.  
-- RTM supports the capability to measure and report end-user  
-- response times for dependent LUs. When the RTM state of an LU  
-- is 'on', response times for each LU transaction are monitored.  
-- A set of ranges is defined (e.g., Range 1 includes the number of  
-- transactions with response times less than 1 second) using the  
-- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).  
-- A set of counters (one per range) identifies  
-- the number of transactions within each response time range.

-- \*\*\*\*\*

snaLuRtmTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuRtmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains Response Time Monitoring (RTM)  
information relating to an LU (Type 2). Each entry  
corresponds to an LU 2 entry in  
snaLuAdminTable."

::= { snaMgtTools 1 }

snaLuRtmEntry OBJECT-TYPE

SYNTAX SnaLuRtmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains RTM information for an LU (Type 2).  
Each entry is created by the Agent."

INDEX { snaLuRtmPuIndex, snaLuRtmLuIndex }

::= { snaLuRtmTable 1 }

```

SnaLuRtmEntry ::= SEQUENCE {
    snaLuRtmPuIndex
        Integer32,
    snaLuRtmLuIndex
        Integer32,
    snaLuRtmState
        INTEGER,
    snaLuRtmStateTime
        TimeStamp,
    snaLuRtmDef
        INTEGER,
    snaLuRtmBoundary1
        Integer32,
    snaLuRtmBoundary2
        Integer32,
    snaLuRtmBoundary3
        Integer32,
    snaLuRtmBoundary4
        Integer32,
    snaLuRtmCounter1
        Counter32,
    snaLuRtmCounter2
        Counter32,
    snaLuRtmCounter3
        Counter32,
    snaLuRtmCounter4
        Counter32,
    snaLuRtmOverFlows
        Counter32,
    snaLuRtmObjPercent
        Integer32,
    snaLuRtmObjRange
        INTEGER,
    snaLuRtmNumTrans
        Integer32,
    snaLuRtmLastRspTime
        Integer32,
    snaLuRtmAvgRspTime
        Integer32
}

```

snaLuRtmPuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value identifies the PU 2.0 with which this LU is associated."

::= { snaLuRtmEntry 1 }

snaLuRtmLuIndex OBJECT-TYPE

SYNTAX

Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value uniquely identifies an LU in a PU 2.0."

::= { snaLuRtmEntry 2 }

snaLuRtmState OBJECT-TYPE

SYNTAX INTEGER {

off(1),

on(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current RTM state of an LU."

::= { snaLuRtmEntry 3 }

snaLuRtmStateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) when this session's RTM state (e.g., snaLuRtmState) changes value."

::= { snaLuRtmEntry 4 }

snaLuRtmDef OBJECT-TYPE

SYNTAX INTEGER {

firstChar(1),

kb(2),

cdeb(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the mode of measurement for this RTM request. The values have following meaning:  
firstChar(1) - time to first character on screen  
kb(2) - time to keyboard usable by operator  
cdeb(3) - time to Change Direction/End Bracket."

::= { snaLuRtmEntry 5 }

snaLuRtmBoundary1 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the first boundary  
in units of 1/10th of a second."

::= { snaLuRtmEntry 6 }

snaLuRtmBoundary2 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the second boundary  
in units of 1/10th of a second."

::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the third boundary  
in units of 1/10th of a second."

::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the value of the fourth boundary  
in units of 1/10th of a second."

::= { snaLuRtmEntry 9 }

snaLuRtmCounter1 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which  
fall in the range specified by the first boundary."

::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates  
the number of transactions which  
fall in the range specified by the second boundary."

::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which  
fall in the range specified by the third boundary."

::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which  
fall in the range specified by the fourth boundary."

::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the number of transactions which  
exceed the highest range specified by  
the  
boundaries."

::= { snaLuRtmEntry 14 }

snaLuRtmObjPercent OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the desired percentage of  
transactions which should be under a designated  
boundary range indicated by snaLuRtmObjRange."

::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE

SYNTAX INTEGER {

other(1),  
range1(2),  
range2(3),  
range3(4),  
range4(5),  
range5(6)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the designated boundary range to which the snaLuRtmObject refers.

The values have the following meanings:

other(1) - not specified  
range1(2) - less than boundary

1

range2(3) - between boundary 1 and 2  
range3(4) - between boundary 2 and 3  
range4(5) - between boundary 3 and 4  
range5(6) - greater than boundary 4."

::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the total number of transactions executed since the RTM monitoring began (i.e., snaLuRtmState changed to 'on(2)') for this LU."

::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the response time for the last transaction in units of 1/10th of a second."

::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the average response time for all

transactions in units of 1/10th of a second."  
::= { snaLuRtmEntry 19 }

-- \*\*\*\*\*  
-- Conformance information  
-- \*\*\*\*\*

snanauConformance OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances OBJECT IDENTIFIER ::= { snanauConformance 1 }

snanauGroups OBJECT IDENTIFIER ::= { snanauConformance 2 }

-- Compliance statements

snanauCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for the SNMPv2 entities  
which implement the snanau MIB."

MODULE -- this module

-- Unconditionally mandatory groups

MANDATORY-GROUPS { snaNodeGroup,

snaLuGroup,

snaSessionGroup

}

-- Conditionally mandatory groups

GROUP snaPu20Group

DESCRIPTION

"The snaPu20Group is mandatory only for those  
entities which implement PU type 2.0"

GROUP snaMgtToolsRtmGroup

DESCRIPTION

"The snaMgtToolsGroup is mandatory only for  
those entities which implement LU type 2  
and RTM."

-- Refinement of requirements for objects access.

-- The Agent which does not implement row creation for

-- snaNodeAdminTable, snaNodeLinkAdminTable and

-- snaLuAdminTable must at least accept

-- objects modification (read-write access instead of

-- read-create).

OBJECT snaNodeAdminName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminXidFormat

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminBlockNum

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminIdNum

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminEnablingMethod

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminLuTermDefault

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminMaxLu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminHostDescription

MIN-ACCESS read-write

DESCRIPTION



"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminStopMethod

MIN-ACCESS read-write

DESCRIPTION

"An

Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminState

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeLinkAdminSpecific

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeLinkAdminMaxPiu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this

object."

OBJECT snaLuAdminSnaName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminDepType

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminLocalAddress

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminDisplayModel

MIN-ACCESS

read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminTerm

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

::= { snanauCompliances 1 }

-- Units of conformance

snaNodeGroup OBJECT-GROUP

OBJECTS { snaNodeAdminName,  
snaNodeAdminType,  
snaNodeAdminXidFormat,  
snaNodeAdminBlockNum,  
snaNodeAdminIdNum,  
snaNodeAdminEnablingMethod,  
snaNodeAdminLuTermDefault,  
snaNodeAdminMaxLu,  
snaNodeAdminHostDescription,  
snaNodeAdminStopMethod,  
snaNodeAdminState,  
snaNodeAdminRowStatus,  
snaNodeAdminTableLastChange,  
snaNodeOperName,  
snaNodeOperType,  
snaNodeOperXidFormat,  
snaNodeOperBlockNum,  
snaNodeOperIdNum,  
snaNodeOperEnablingMethod,

```
snaNodeOperLuTermDefault,  
snaNodeOperMaxLu,  
snaNodeOperHostDescription,  
snaNodeOperStopMethod,  
snaNodeOperState,  
snaNodeOperHostSscpId,  
snaNodeOperStartTime,  
snaNodeOperLastStateChange,  
snaNodeOperActFailures,  
snaNodeOperActFailureReason,  
snaNodeOperTableLastChange,  
snaNodeLinkAdminSpecific,  
snaNodeLinkAdminMaxPiu,  
snaNodeLinkAdminRowStatus,  
snaNodeLinkAdminTableLastChange,  
snaNodeLinkOperSpecific,  
snaNodeLinkOperMaxPiu,  
snaNodeLinkOperTableLastChange }
```

STATUS current

DESCRIPTION

"A collection of objects providing the  
instrumentation of SNA nodes."

::= { snanauGroups 1 }

snaLuGroup OBJECT-GROUP

```
OBJECTS { snaLuAdminName,  
snaLuAdminSnaName,  
snaLuAdminType,  
snaLuAdminDepType,  
snaLuAdminLocalAddress,  
snaLuAdminDisplayModel,  
snaLuAdminTerm,  
snaLuAdminRowStatus,  
snaLuOperName,  
snaLuOperSnaName,  
snaLuOperType,  
snaLuOperDepType,  
snaLuOperLocalAddress,  
snaLuOperDisplayModel,  
snaLuOperTerm,  
snaLuOperState,  
snaLuOperSessnCount }
```

STATUS current

DESCRIPTION

"A collection of objects providing the  
instrumentation of SNA LUs."

::= { snanauGroups 2 }

```

snaSessionGroup OBJECT-GROUP
  OBJECTS { snaLuSessnRluIndex,

snaLuSessnIndex,
  snaLuSessnLocalApplName,
  snaLuSessnRemoteLuName,
  snaLuSessnMaxSndRuSize,
  snaLuSessnMaxRcvRuSize,
  snaLuSessnSndPacingSize,
  snaLuSessnRcvPacingSize,
  snaLuSessnActiveTime,
  snaLuSessnAdminState,
  snaLuSessnOperState,
  snaLuSessnSenseData,
  snaLuSessnTerminationRu,
  snaLuSessnUnbindType,
  snaLuSessnLinkIndex,
  snaLuSessnStatsSentBytes,
  snaLuSessnStatsReceivedBytes,
  snaLuSessnStatsSentRus,
  snaLuSessnStatsReceivedRus,
  snaLuSessnStatsSentNegativeResps,
  snaLuSessnStatsReceivedNegativeResps }

STATUS current
DESCRIPTION
  "A collection of objects providing the
  instrumentation of SNA sessions."
::= { snanauGroups 3 }

```

```

snaPu20Group
  OBJECT-GROUP
    OBJECTS { snaPu20StatsSentBytes,
      snaPu20StatsReceivedBytes,
      snaPu20StatsSentPius,
      snaPu20StatsReceivedPius,
      snaPu20StatsSentNegativeResps,
      snaPu20StatsReceivedNegativeResps,
      snaPu20StatsActLus,
      snaPu20StatsInActLus,
      snaPu20StatsBindLus }

STATUS current
DESCRIPTION
  "A collection of objects providing the
  instrumentation of PU 2.0."
::= { snanauGroups 4 }

```

```

snaMgtToolsRtmGroup OBJECT-GROUP

```

```

OBJECTS { snaLuRtmState,
          snaLuRtmStateTime,
          snaLuRtmDef,
          snaLuRtmBoundary1,
          snaLuRtmBoundary2,
          snaLuRtmBoundary3,
          snaLuRtmBoundary4,
          snaLuRtmCounter1,
          snaLuRtmCounter2,
          snaLuRtmCounter3,
          snaLuRtmCounter4,
          snaLuRtmOverFlows,
          snaLuRtmObjPercent,
          snaLuRtmObjRange,
          snaLuRtmNumTrans,
          snaLuRtmLastRspTime,
          snaLuRtmAvgRspTime }

STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of RTM for SNA LU 2.0."
 ::= { snanauGroups 5 }

-- end of conformance statement

END

Found in path(s):
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-
MIB
No license file was found, but licenses were detected in source scan.

DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,
        Integer32, NOTIFICATION-TYPE
    FROM SNMPv2-SMI
    -- from [RFC2578]
    TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

    FROM SNMPv2-TC
    -- from [RFC2579]
    CounterBasedGauge64
    FROM HCNUM-TC
    -- from [RFC2856]
    ifIndex

```

FROM IF-MIB  
-- from [RFC2863]  
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP  
FROM SNMPv2-CONF;

-- from [RFC2580]

dot3OamMIB MODULE-IDENTITY  
LAST-UPDATED "200706140000Z" -- June 14,2007"  
ORGANIZATION  
"IETF Ethernet Interfaces and Hub MIB Working Group"  
CONTACT-INFO  
"WG Charter:  
<http://www.ietf.org/html.charters/hubmib-charter.html>  
Mailing lists:  
General Discussion: hubmib@ietf.org  
To Subscribe: hubmib-requests@ietf.org  
In Body: subscribe your\_email\_address  
Chair: Bert Wijnen  
Alcatel-Lucent  
Email: bwijnen at alcatel-lucent dot com  
Editor: Matt Squire  
Hatteras Networks  
E-mail: msquire at hatterasnetworks dot com  
"

#### DESCRIPTION

"The MIB module for managing the new Ethernet OAM features introduced by the Ethernet in the First Mile taskforce (IEEE 802.3ah). The functionality presented here is based on IEEE 802.3ah [802.3ah], released in October, 2004. [802.3ah] was prepared as an addendum to the standing version of IEEE 802.3 [802.3-2002]. Since then, [802.3ah] has been merged into the base IEEE 802.3 specification in [802.3-2005].

In particular, this MIB focuses on the new OAM functions introduced in Clause 57 of [802.3ah]. The OAM functionality of Clause 57 is controlled by new management attributes introduced in Clause 30 of [802.3ah]. The OAM functions are not specific to any particular Ethernet physical layer, and can be generically applied to any Ethernet interface of [802.3-2002].

An Ethernet OAM protocol data unit is a valid Ethernet frame with a destination MAC address equal to the reserved MAC address for Slow Protocols (See 43B of [802.3ah]), a

lengthOrType field equal to the reserved type for Slow Protocols, and a Slow Protocols subtype equal to that of the subtype reserved for Ethernet OAM. OAMPDU is used throughout this document as an abbreviation for Ethernet OAM protocol data unit.

The following reference is used throughout this MIB module:

[802.3ah] refers to:

IEEE Std 802.3ah-2004: 'Draft amendment to - Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications - Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', October 2004.

[802.3-2002] refers to:

IEEE Std 802.3-2002: 'Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications - Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', March 2002.

[802.3-2005] refers to:

IEEE Std 802.3-2005: 'Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks  
- Specific requirements - Part  
3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications  
- Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', December 2005.

[802-2001] refers to:

'IEEE Standard for LAN/MAN (Local Area Network/Metropolitan Area Network): Overview and

Architecture', IEEE 802, June 2001.

Copyright (c) The IETF Trust (2007). This version of this MIB module is part of RFC 4878; See the RFC itself for full legal notices. "

REVISION "200706140000Z" -- June 14, 2007"

DESCRIPTION "Initial version, published as RFC 4878."

::= { mib-2 158 }

--

-- Sections of the Ethernet OAM MIB

--

dot3OamNotifications OBJECT IDENTIFIER ::= { dot3OamMIB 0 }

dot3OamObjects OBJECT IDENTIFIER ::= { dot3OamMIB 1 }

dot3OamConformance OBJECT IDENTIFIER ::= { dot3OamMIB 2 }

--

-- Textual conventions for the OAM MIB

--

EightOTwoOui ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"24-bit Organizationally Unique Identifier. Information on OUIs can be found in IEEE 802-2001 [802-2001], Clause 9."

SYNTAX OCTET STRING(SIZE(3))

-- \*\*\*\*\*

--

-- Ethernet OAM Control group

--

dot3OamTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the primary controls and status for the OAM capabilities of an Ethernet-like interface. There will be one row in this table for each Ethernet-like interface in the system that supports the OAM functions defined in [802.3ah]."

"

::= { dot3OamObjects 1 }



dot3OamEntry OBJECT-TYPE

SYNTAX Dot3OamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table that contains information on the Ethernet OAM function for a single Ethernet like interface. Entries in the table are created automatically for each interface supporting Ethernet OAM. The status of the row entry can be determined from dot3OamOperStatus.

A dot3OamEntry is indexed in the dot3OamTable by the ifIndex object of the Interfaces MIB.

"

INDEX { ifIndex }

::= { dot3OamTable 1 }

Dot3OamEntry ::=

SEQUENCE {

dot3OamAdminState INTEGER,

dot3OamOperStatus INTEGER,

dot3OamMode INTEGER,

dot3OamMaxOamPduSize Unsigned32,

dot3OamConfigRevision Unsigned32,

dot3OamFunctionsSupported BITS

}

dot3OamAdminState OBJECT-TYPE

SYNTAX INTEGER {

enabled(1),

disabled(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to provision the default administrative OAM mode for this interface. This object represents the desired state of OAM for this interface.

The dot3OamAdminState always starts in the disabled(2) state until an explicit management action or configuration information retained by the system causes a transition to the enabled(1) state. When enabled(1), Ethernet OAM will attempt to operate over this interface.

"

REFERENCE "[802.3ah], 30.3.6.1.2"

::= { dot3OamEntry 1 }

dot3OamOperStatus OBJECT-TYPE

```
SYNTAX INTEGER {
    disabled(1),
    linkFault(2),
    passiveWait(3),
    activeSendLocal(4),
    sendLocalAndRemote(5),
    sendLocalAndRemoteOk(6),
    oamPeeringLocallyRejected(7),
    oamPeeringRemotelyRejected(8),
    operational(9),
    nonOperHalfDuplex(10)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At initialization and failure conditions, two OAM entities on

the same full-duplex Ethernet link begin a discovery phase to determine what OAM capabilities may be used on that link. The progress of this initialization is controlled by the OAM sublayer.

This value is always disabled(1) if OAM is disabled on this interface via the dot3OamAdminState.

If the link has detected a fault and is transmitting OAMPDUs with a link fault indication, the value is linkFault(2).

Also, if the interface is not operational (ifOperStatus is not up(1)), linkFault(2) is returned. Note that the object ifOperStatus may not be up(1) as a result of link failure or administrative action (ifAdminState being down(2) or testing(3)).

The passiveWait(3) state is returned only by OAM entities in passive mode (dot3OamMode) and reflects the state in which the OAM entity is waiting to see if the peer device is OAM capable. The activeSendLocal(4) value is used by active mode devices (dot3OamMode) and reflects the OAM entity actively trying to discover whether the peer has OAM capability but has not yet made that determination.

The state sendLocalAndRemote(5) reflects that the local OAM

entity has discovered the peer but has not yet accepted or rejected the configuration of the peer. The local device can, for whatever reason, decide that the peer device is unacceptable and decline OAM peering. If the local OAM entity rejects the peer OAM entity, the state becomes `oamPeeringLocallyRejected(7)`. If the OAM peering is allowed by the local device, the state moves

to

`sendLocalAndRemoteOk(6)`. Note that both the `sendLocalAndRemote(5)` and `oamPeeringLocallyRejected(7)` states fall within the state `SEND_LOCAL_REMOTE` of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the local OAM client has actively rejected the peering or has just not indicated any decision yet. Whether a peering decision has been made is indicated via the local flags field in the OAMPDU (reflected in the `aOAMLocalFlagsField` of 30.3.6.1.10).

If the remote OAM entity rejects the peering, the state becomes `oamPeeringRemotelyRejected(8)`. Note that both the `sendLocalAndRemoteOk(6)` and `oamPeeringRemotelyRejected(8)` states fall within the state `SEND_LOCAL_REMOTE_OK` of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the remote OAM client has rejected

the peering or has just not yet decided. This is indicated

via the remote flags field in the OAMPDU (reflected in the `aOAMRemoteFlagsField` of 30.3.6.1.11).

When the local OAM entity learns that both it and the remote OAM entity have accepted the peering, the state moves to `operational(9)` corresponding to the `SEND_ANY` state of the Discovery state diagram [802.3ah, Figure 57-5].

Since Ethernet OAM functions are not designed to work completely over half-duplex interfaces, the value `nonOperHalfDuplex(10)` is returned whenever Ethernet OAM is enabled (`dot3OamAdminState` is `enabled(1)`), but the interface is in half-duplex operation.

"

REFERENCE "[802.3ah], 30.3.6.1.4, 30.3.6.1.10, 30.3.6.1.11"  
 ::= { dot3OamEntry 2 }

`dot3OamMode` OBJECT-TYPE

SYNTAX INTEGER {

```

        passive(1),
        active(2)
    }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "This object configures
the mode of OAM operation for this
Ethernet-like interface. OAM on Ethernet interfaces may be in
'active' mode or 'passive' mode. These two modes differ in
that active mode provides additional capabilities to initiate
monitoring activities with the remote OAM peer entity, while
passive mode generally waits for the peer to initiate OA
actions with it. As an example, an active OAM entity can put
the remote OAM entity in a loopback state, where a passive OA
entity cannot.

The default value of dot3OamMode is dependent on the type of
system on which this Ethernet-like interface resides. The
default value should be 'active(2)' unless it is known that
this system should take on a subservient role to the other
device connected over this interface.

Changing this value results in incrementing the configuration
revision field of locally generated OAMPDUs (30.3.6.1.12) and
potentially
re-doing the OAM discovery process if the
dot3OamOperStatus was already operational(9).
"
REFERENCE "[802.3ah], 30.3.6.1.3"

```

```
 ::= { dot3OamEntry 3 }
```

```

dot3OamMaxOamPduSize OBJECT-TYPE
SYNTAX Unsigned32 (64..1518)
UNITS "octets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The largest OAMPDU that the OAM entity supports. OA
entities exchange maximum OAMPDU sizes and negotiate to use
the smaller of the two maximum OAMPDU sizes between the peers.
This value is determined by the local implementation.
"
REFERENCE "[802.3ah], 30.3.6.1.8"
 ::= { dot3OamEntry 4 }

```

dot3OamConfigRevision OBJECT-TYPE

SYNTAX Unsigned32(0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The configuration revision of the OAM entity as reflected in the latest OAMPDU sent by the OAM entity. The config revision is used by OAM entities

to indicate that configuration changes

have occurred, which might require the peer OAM entity to re-evaluate whether OAM peering is allowed.

"

REFERENCE "[802.3ah], 30.3.6.1.12"

::= { dot3OamEntry 5 }

dot3OamFunctionsSupported OBJECT-TYPE

SYNTAX BITS {

    unidirectionalSupport(0),

    loopbackSupport(1),

    eventSupport(2),

    variableSupport(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The OAM functions supported on this Ethernet-like interface. OAM consists of separate functional sets beyond the basic discovery process that is always required. These functional groups can be supported independently by any implementation. These values are communicated to the peer via the local configuration field of Information OAMPDUs.

Setting 'unidirectionalSupport(0)' indicates that the OA

entity supports the transmission of OAMPDUs on links that are operating in unidirectional mode (traffic flowing in one direction only). Setting 'loopbackSupport(1)' indicates that the OAM entity can initiate and respond to loopback commands. Setting 'eventSupport(2)' indicates that the OAM entity can send and receive Event Notification OAMPDUs. Setting 'variableSupport(3)' indicates that the OAM entity can send and receive Variable Request and Response OAMPDUs.

"

REFERENCE "[802.3ah], 30.3.6.1.6"

```
::= { dot3OamEntry 6 }
```

```
-- *****  
--  
-- Ethernet OAM Peer group  
--
```

```
dot3OamPeerTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF Dot3OamPeerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This table contains information about the OAM peer for a particular Ethernet-like interface. OAM entities communicate with a single OAM peer entity on Ethernet links on which OAM is enabled and operating properly. There is one entry in this table for each entry in the dot3OamTable for which information on the peer OAM entity is available.  
"
```

```
"
```

```
::= { dot3OamObjects 2 }
```

```
dot3OamPeerEntry OBJECT-TYPE
```

```
SYNTAX Dot3OamPeerEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"An entry in the table containing information on the peer OAM entity for a single Ethernet-like interface.
```

```
Note that there is at most one OAM peer for each Ethernet-like interface. Entries are automatically created when information about the OAM peer entity becomes available, and automatically deleted when the OAM peer entity is no longer in communication. Peer information is not available when dot3OamOperStatus is disabled(1), linkFault(2), passiveWait(3), activeSendLocal(4), or nonOperHalfDuplex(10).  
"
```

```
"
```

```
INDEX { ifIndex }
```

```
::= { dot3OamPeerTable 1 }
```

```
Dot3OamPeerEntry ::=
```

```
SEQUENCE {
```

```
dot3OamPeerMacAddress MacAddress,
```

```
dot3OamPeerVendorOui EightOTwoOui,
```

```
dot3OamPeerVendorInfo Unsigned32,
```

```
dot3OamPeerMode          INTEGER,
dot3OamPeerMaxOamPduSize Unsigned32,
dot3OamPeerConfigRevision Unsigned32,
dot3OamPeerFunctionsSupported BITS
}
```

dot3OamPeerMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The MAC address of the peer OAM entity. The MAC address is derived from the most recently received OAMPDU.

"

REFERENCE "[802.3ah], 30.3.6.1.5."

::= { dot3OamPeerEntry 1 }

dot3OamPeerVendorOui OBJECT-TYPE

SYNTAX EightOTwoOui

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The

OUI of the OAM peer as reflected in the latest

Information OAMPDU received with a Local Information TLV. The OUI can be used to identify the vendor of the remote OAM entity. This value is initialized to three octets of zero before any Local Information TLV is received.

"

REFERENCE "[802.3ah], 30.3.6.1.16."

::= { dot3OamPeerEntry 2 }

dot3OamPeerVendorInfo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Vendor Info of the OAM peer as reflected in the latest Information OAMPDU received with a Local Information TLV. The semantics of the Vendor Information field is proprietary and specific to the vendor (identified by the dot3OamPeerVendorOui). This information could, for example,

be used to identify a specific product or product family.

This value is initialized to zero before any Local Information TLV is received.

"  
REFERENCE "[802.3ah], 30.3.6.1.17."  
::= { dot3OamPeerEntry 3 }

dot3OamPeerMode OBJECT-TYPE

SYNTAX INTEGER {  
    passive(1),  
    active(2),  
    unknown(3)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The mode of the OAM peer as reflected in the latest Information OAMPDU received with a Local Information TLV. The mode of the peer can be determined from the Configuration field in the Local Information TLV of the last Information OAMPDU received from the peer. The value is unknown(3) whenever no Local Information TLV has been received. The values of active(2) and passive(1) are returned when a Local Information TLV has been received indicating that the peer is in active or passive mode, respectively.

"  
REFERENCE "[802.3ah], 30.3.6.1.7."  
::= { dot3OamPeerEntry 4 }

dot3OamPeerMaxOamPduSize

OBJECT-TYPE

SYNTAX Unsigned32 (0 | 64..1518)

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum size of OAMPDU supported by the peer as reflected in the latest Information OAMPDU received with a Local Information TLV. Ethernet OAM on this interface must not use OAMPDUs that exceed this size. The maximum OAMPDU size can be determined from the PDU Configuration field of the Local Information TLV of the last Information OAMPDU received from the peer. A value of zero is returned if no Local Information TLV has been received. Otherwise, the value of the OAM peer's maximum OAMPDU size is returned in this value.

"  
REFERENCE "[802.3ah], 30.3.6.1.9."  
::= { dot3OamPeerEntry 5 }



dot3OamPeerConfigRevision OBJECT-TYPE

SYNTAX Unsigned32(0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The configuration revision of the OAM peer as reflected in the latest OAMPDU. This attribute is changed by the peer whenever it has a local configuration change for Ethernet OA on this interface. The configuration revision can be determined from the Revision field of the Local Information TLV of the most recently received Information OAMPDU with a Local Information TLV. A value of zero is returned if no Local Information TLV has been received.

"

REFERENCE "[802.3ah], 30.3.6.1.13."

::= { dot3OamPeerEntry 6 }

dot3OamPeerFunctionsSupported OBJECT-TYPE

SYNTAX BITS {

    unidirectionalSupport(0),

    loopbackSupport(1),

    eventSupport(2),

    variableSupport(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The OAM functions supported on this Ethernet-like interface. OAM consists of separate functionality sets above the basic discovery process. This value indicates the capabilities of the peer OAM entity with respect to these functions. This value is initialized so all bits are clear.

If unidirectionalSupport(0) is set, then the peer OAM entity supports sending OAM frames on Ethernet interfaces when the receive path is known to be inoperable. If loopbackSupport(1) is set, then the peer OAM entity can send and receive OAM loopback commands. If eventSupport(2) is set, then the peer OAM entity can send and receive event OAMPDUs to signal various error conditions. If variableSupport(3) is set, then the peer OAM entity can send and receive variable requests to monitor the attribute value as described in Clause 57 of [802.3ah].

The capabilities of the OAM peer can be determined from the

configuration field of the Local Information TLV of the most recently received Information OAMPDU with a Local Information TLV. All zeros are returned if no Local Information TLV has

yet been received.

"

REFERENCE "[802.3ah], REFERENCE 30.3.6.1.7."

::= { dot3OamPeerEntry 7 }

-- \*\*\*\*\*

--

-- Ethernet OAM Loopback group

--

dot3OamLoopbackTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamLoopbackEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains controls for the loopback state of the local link as well as indicates the status of the loopback function. There is one entry in this table for each entry in dot3OamTable that supports loopback functionality (where dot3OamFunctionsSupported includes the loopbackSupport bit set).

Loopback can be used to place the remote OAM entity in a state where every received frame (except OAMPDUs) is echoed back

over the same interface on which they were received. In this state, at the remote entity, 'normal' traffic is disabled as only the looped back frames are transmitted on the interface. Loopback is thus an intrusive operation that prohibits normal data flow and should be used accordingly.

"

::= { dot3OamObjects 3 }

dot3OamLoopbackEntry OBJECT-TYPE

SYNTAX Dot3OamLoopbackEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table, containing information on the loopback status for a single Ethernet-like interface. Entries in the table are automatically created whenever the local OAM entity

supports loopback capabilities. The loopback status on the interface can be determined from the dot3OamLoopbackStatus object.

"

```
INDEX    { ifIndex }
::= { dot3OamLoopbackTable 1 }
```

```
Dot3OamLoopbackEntry ::=
```

```
SEQUENCE {
  dot3OamLoopbackStatus
    INTEGER,
  dot3OamLoopbackIgnoreRx    INTEGER
}
```

```
dot3OamLoopbackStatus OBJECT-TYPE
```

```
SYNTAX    INTEGER {
    -- all values, except where noted, can be read
    -- but cannot be written
    noLoopback (1),

    -- initiatingLoopback can be read or written
    initiatingLoopback (2),
    remoteLoopback (3),

    -- terminatingLoopback can be read or written
    terminatingLoopback (4),
    localLoopback (5),
    unknown (6)
}
```

```
MAX-ACCESS read-write
```

```
STATUS    current
```

```
DESCRIPTION
```

"The loopback status of the OAM entity. This status is determined by a combination of the local parser and multiplexer states, the remote parser and multiplexer states, as well as by the actions of the local OAM client. When operating in normal mode

with no loopback in progress, the status reads noLoopback(1).

The values initiatingLoopback(2) and terminatingLoopback(4) can be read or written. The other values can only be read - they can never be written. Writing initiatingLoopback causes the local OAM entity to start the loopback process with its peer. This value can only be written when the status is

noLoopback(1). Writing the value initiatingLoopback(2) in any other state has no effect. When in remoteLoopback(3), writing terminatingLoopback(4) causes the local OAM entity to initiate the termination of the loopback state. Writing terminatingLoopback(4) in any other state has no effect.

If the OAM client initiates a loopback and has sent a Loopback OAMPDU and is waiting for a response, where the local parser and multiplexer states are DISCARD (see [802.3ah, 57.2.11.1]), the status is 'initiatingLoopback'. In this

case, the local OAM entity has yet to receive any acknowledgment that the remote OAM entity has received its loopback command request.

If the local OAM client knows that the remote OAM entity is in loopback mode (via the remote state information as described in [802.3ah, 57.2.11.1, 30.3.6.1.15]), the status is remoteLoopback(3). If the local OAM client is in the process of terminating the remote loopback [802.3ah, 57.2.11.3, 30.3.6.1.14] with its local multiplexer and parser states in DISCARD, the status is terminatingLoopback(4). If the remote OAM client has put the local OAM entity in loopback mode as indicated by its local parser state, the status is localLoopback(5).

The unknown(6) status indicates that the parser and multiplexer combination is unexpected. This status may be returned if the OAM loopback is in a transition state but should not persist.

The values of this attribute correspond to the following values of the local and remote parser and multiplexer states.

| value         | LclPrsr | LclMux                | RmtPrsr | RmtMux  |
|---------------|---------|-----------------------|---------|---------|
| noLoopback    | FWD     | FWD                   | FWD     | FWD     |
| initLoopback  | DISCARD | DISCARD               | FWD     | FWD     |
| rmtLoopback   | DISCARD | FWD                   | LPBK    | DISCARD |
| tmtngLoopback | DISCARD | DISCARD               | LPBK    | DISCARD |
| lclLoopback   | LPBK    | DISCARD               | DISCARD | FWD     |
| unknown       | ***     | any other combination | ***     | ***     |

REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.6.1.14, 30.3.6.1.15"

```
::= { dot3OamLoopbackEntry 1 }
```

dot3OamLoopbackIgnoreRx OBJECT-TYPE

SYNTAX INTEGER { ignore(1), process(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Since OAM loopback is a disruptive operation (user traffic does not pass), this attribute provides a mechanism to provide controls

over whether received OAM loopback commands are processed or ignored. When the value is ignore(1), received loopback commands are ignored. When the value is process(2), OAM loopback commands are processed. The default value is to ignore loopback commands (ignore(1)).

"

REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.61.14, 30.3.6.1.15"

```
::= { dot3OamLoopbackEntry 2 }
```

```
-- *****
```

```
--
```

```
-- Ethernet OAM Statistics group
```

```
--
```

dot3OamStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains statistics for the OAM function on a particular Ethernet-like interface. There is an entry in the table for every entry in the dot3OamTable.

The counters in this table are defined as 32-bit entries to match the counter size as defined in [802.3ah].

Given that

the OA protocol is a slow protocol, the counters increment at a slow rate.

"

```
::= { dot3OamObjects 4 }
```

dot3OamStatsEntry OBJECT-TYPE

SYNTAX Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An entry in the table containing statistics information on the Ethernet OAM function for a single Ethernet-like interface. Entries are automatically created for every entry in the dot3OamTable. Counters are maintained across transitions in dot3OamOperStatus.

"

INDEX { ifIndex }

::= { dot3OamStatsTable 1 }

Dot3OamStatsEntry ::=

SEQUENCE {

dot3OamInformationTx Counter32,  
dot3OamInformationRx Counter32,  
dot3OamUniqueEventNotificationTx Counter32,  
dot3OamUniqueEventNotificationRx Counter32,  
dot3OamDuplicateEventNotificationTx

Counter32,

dot3OamDuplicateEventNotificationRx Counter32,  
dot3OamLoopbackControlTx Counter32,  
dot3OamLoopbackControlRx Counter32,  
dot3OamVariableRequestTx Counter32,  
dot3OamVariableRequestRx Counter32,  
dot3OamVariableResponseTx Counter32,

dot3OamVariableResponseRx Counter32,  
dot3OamOrgSpecificTx Counter32,  
dot3OamOrgSpecificRx Counter32,  
dot3OamUnsupportedCodesTx Counter32,  
dot3OamUnsupportedCodesRx Counter32,  
dot3OamFramesLostDueToOam Counter32

}

dot3OamInformationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime. "

REFERENCE "[802.3ah], 30.3.6.1.20."

::= { dot3OamStatsEntry 1 }

dot3OamInformationRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.21."

::= { dot3OamStatsEntry 2 }

dot3OamUniqueEventNotificationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of unique Event OAMPDUs transmitted on this interface. Event Notifications may be sent in duplicate to increase the probability of successfully being received,

given the possibility that a frame may be lost in transit. Duplicate Event Notification transmissions are counted by dot3OamDuplicateEventNotificationTx.

A unique Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is distinct from the previously transmitted Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.22."

::= { dot3OamStatsEntry 3 }

dot3OamUniqueEventNotificationRx OBJECT-TYPE

SYNTAX Counter32  
UNITS "frames"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"A count of the number of unique Event OAMPDU received on this interface. Event Notification OAMPDU may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit. Duplicate Event Notification receptions are counted by dot3OamDuplicateEventNotificationRx.

A unique Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is distinct from the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.24."  
::= { dot3OamStatsEntry 4 }

dot3OamDuplicateEventNotificationTx OBJECT-TYPE

SYNTAX  
Counter32  
UNITS "frames"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"A count of the number of duplicate Event OAMPDU transmitted

on this interface. Event Notification OAMPDU may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously transmitted Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.



"

REFERENCE "[802.3ah], 30.3.6.1.23."

::= { dot3OamStatsEntry 5 }

dot3OamDuplicateEventNotificationRx OBJECT-TYPE

SYNTAX Counter32

UNITS

"frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of duplicate Event OAMPDUs received on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.25."

::= { dot3OamStatsEntry 6 }

dot3OamLoopbackControlTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs transmitted

on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.26."

::= { dot3OamStatsEntry 7 }

dot3OamLoopbackControlRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.27."

::= { dot3OamStatsEntry 8 }

dot3OamVariableRequestTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.28."

::= { dot3OamStatsEntry 9 }

dot3OamVariableRequestRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs received on

this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"  
REFERENCE "[802.3ah], 30.3.6.1.29."  
::= { dot3OamStatsEntry  
10 }

dot3OamVariableResponseTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Response OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.30."

::= { dot3OamStatsEntry 11 }

dot3OamVariableResponseRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Response OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.31."

::= { dot3OamStatsEntry 12 }

dot3OamOrgSpecificTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Organization Specific OAMPDUs

transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.32."

::= { dot3OamStatsEntry 13 }

dot3OamOrgSpecificRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Organization Specific OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by

the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.33."

::= { dot3OamStatsEntry 14 }

dot3OamUnsupportedCodesTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs transmitted on this interface with an unsupported op-code.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.18."

::= { dot3OamStatsEntry 15 }

dot3OamUnsupportedCodesRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs received on this interface

with an unsupported op-code.

Discontinuities

of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.19."

::= { dot3OamStatsEntry 16 }

dot3OamFramesLostDueToOam OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of frames that were dropped by the OAM multiplexer. Since the OAM multiplexer has multiple inputs and a single output, there may be cases where frames are dropped due to transmit resource contention. This counter is incremented whenever a frame is dropped by the OAM layer. Note that any Ethernet frame, not just OAMPDUs, may be dropped by the OAM layer. This can occur when an OAMPDU takes precedence over a 'normal' frame resulting in the 'normal' frame being dropped.

When this counter is incremented, no other counters in this MIB are incremented.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.46."

::= { dot3OamStatsEntry 17 }

-- \*\*\*\*\*

--

-- Ethernet OAM Event Configuration group

--

dot3OamEventConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Ethernet OAM includes the ability to generate and receive Event Notification OAMPDUs to indicate various link problems. This table contains the mechanisms to enable Event

Notifications and configure the thresholds to generate the standard Ethernet OAM events. There is one entry in the table for every entry in

dot3OamTable that supports OAM events

(where dot3OamFunctionsSupported includes the eventSupport bit set). The values in the table are maintained across changes to dot3OamOperStatus.

The standard threshold crossing events are:

- Errored Symbol Period Event. Generated when the number of symbol errors exceeds a threshold within a given window defined by a number of symbols (for example, 1,000 symbols out of 1,000,000 had errors).
- Errored Frame Period Event. Generated when the number of frame errors exceeds a threshold within a given window defined by a number of frames (for example, 10 frames out of 1000 had errors).
- Errored Frame Event. Generated when the number of frame errors exceeds a threshold within a given window defined by a period of time (for example, 10 frames in 1 second had errors).
- Errored Frame Seconds

Summary Event. Generated when the

number of errored frame seconds exceeds a threshold within a given time period (for example, 10 errored frame seconds within the last 100 seconds). An errored frame second is defined as a 1 second interval which had >0 frame errors.

There are other events (dying gasp, critical events) that are not threshold crossing events but which can be enabled/disabled via this table.

"

::= { dot3OamObjects 5 }

dot3OamEventConfigEntry OBJECT-TYPE

SYNTAX Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries are automatically created and deleted from this table, and exist whenever the OAM entity supports Ethernet OA

events (as indicated by the eventSupport bit in dot3OamFunctionsSupported). Values in the table are maintained across changes to the value of dot3OamOperStatus.

Event

configuration controls when the local management entity sends Event Notification OAMPDUs to its OAM peer, and when certain event flags are set or cleared in OAMPDUs.

"

INDEX { ifIndex }

::= { dot3OamEventConfigTable 1 }

Dot3OamEventConfigEntry ::=

SEQUENCE {

dot3OamErrSymPeriodWindowHi Unsigned32,  
dot3OamErrSymPeriodWindowLo Unsigned32,  
dot3OamErrSymPeriodThresholdHi Unsigned32,  
dot3OamErrSymPeriodThresholdLo Unsigned32,  
dot3OamErrSymPeriodEvNotifEnable TruthValue,  
dot3OamErrFramePeriodWindow Unsigned32,  
dot3OamErrFramePeriodThreshold Unsigned32,  
dot3OamErrFramePeriodEvNotifEnable TruthValue,  
dot3OamErrFrameWindow Unsigned32,  
dot3OamErrFrameThreshold Unsigned32,  
dot3OamErrFrameEvNotifEnable TruthValue,

dot3OamErrFrameSecsSummaryWindow Integer32,  
dot3OamErrFrameSecsSummaryThreshold Integer32,  
dot3OamErrFrameSecsEvNotifEnable TruthValue,  
dot3OamDyingGaspEnable TruthValue,  
dot3OamCriticalEventEnable TruthValue

}

dot3OamErrSymPeriodWindowHi OBJECT-TYPE

SYNTAX Unsigned32

UNITS "2^32 symbols"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The two objects dot3OamErrSymPeriodWindowHi and dot3OamErrSymPeriodLo together form an unsigned 64-bit integer representing the number of symbols over which this threshold event is defined. This is defined as

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event

Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodWindow is the number of symbols in one second for the underlying physical layer.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 1 }

dot3OamErrSymPeriodWindowLo OBJECT-TYPE

SYNTAX Unsigned32

UNITS "symbols"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The two objects dot3OamErrSymPeriodWindowHi and dot3OamErrSymPeriodWindowLo together form an unsigned 64-bit integer representing the number of symbols over which this threshold event is defined. This is defined as

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodWindow is the number of symbols in one second for the underlying physical layer.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 2 }

dot3OamErrSymPeriodThresholdHi OBJECT-TYPE

SYNTAX Unsigned32

UNITS "2^32 symbols"

MAX-ACCESS read-write

STATUS current



## DESCRIPTION

"The two objects dot3OamErrSymPeriodThresholdHi and dot3OamErrSymPeriodThresholdLo together form an unsigned 64-bit integer representing the number of symbol errors that must occur within a given window to cause this event.

This is defined as

$$\text{dot3OamErrSymPeriodThreshold} = ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) + \text{dot3OamErrSymPeriodThresholdLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol errors. If the threshold value is zero, then an Event

Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 3 }

dot3OamErrSymPeriodThresholdLo OBJECT-TYPE

SYNTAX Unsigned32

UNITS "symbols"

MAX-ACCESS read-write

STATUS

current

## DESCRIPTION

"The two objects dot3OamErrSymPeriodThresholdHi and dot3OamErrSymPeriodThresholdLo together form an unsigned 64-bit integer representing the number of symbol errors that must occur within a given window to cause this event.

This is defined as

$$\text{dot3OamErrSymPeriodThreshold} = ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi})$$

#### + dot3OamErrSymPeriodThresholdLo

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 4 }

#### dot3OamErrSymPeriodEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If true, the OAM entity should send an Event Notification OAMPDU when an Errored Symbol Period Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

"

::= { dot3OamEventConfigEntry 5 }

#### dot3OamErrFramePeriodWindow OBJECT-TYPE

SYNTAX Unsigned32

UNITS "frames"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The number of frames over which the threshold is defined.

The default value of the window is the number of minimum size Ethernet frames that can be received over the physical layer in one second.

If dot3OamErrFramePeriodThreshold frame errors occur within a window of dot3OamErrFramePeriodWindow frames, an Event Notification OAMPDU should be generated with an Errored Frame Period Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.38"

::= { dot3OamEventConfigEntry 6 }

dot3OamErrFramePeriodThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "frames"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The number of frame errors that must occur for this event to be triggered. The default value is one frame error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically

(at the end of every window). This can be

used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFramePeriodThreshold frame errors occur within a window of dot3OamErrFramePeriodWindow frames, an Event Notification OAMPDU should be generated with an Errored Frame Period Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.38"

::= { dot3OamEventConfigEntry 7 }

dot3OamErrFramePeriodEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If true, the OAM entity should send an Event Notification OAMPDU when an Errored Frame Period Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications

(as indicated via the

dot3OamFunctionsSupported attribute), this value is ignored.

"

::= { dot3OamEventConfigEntry 8 }

#### dot3OamErrFrameWindow OBJECT-TYPE

SYNTAX Unsigned32

UNITS "tenths of a second"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The amount of time (in 100ms increments) over which the threshold is defined. The default value is 10 (1 second).

If dot3OamErrFrameThreshold frame errors occur within a window of dot3OamErrFrameWindow seconds (measured in tenths of seconds), an Event Notification OAMPDU should be generated with an Errored Frame Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.36"

DEFVAL { 10 }

::= { dot3OamEventConfigEntry 9 }

#### dot3OamErrFrameThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "frames"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The number of frame errors that must occur for this event to be triggered. The default value is one frame error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFrameThreshold frame errors occur within a window of dot3OamErrFrameWindow (in tenths of seconds), an Event Notification OAMPDU should be generated with an Errored Frame Event TLV indicating the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.36"

DEFVAL { 1 }  
::= { dot3OamEventConfigEntry 10 }

dot3OamErrFrameEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"If true,  
the OAM entity should send an Event Notification  
OAMPDU when an Errored Frame Event occurs.

By default, this object should have the value true for  
Ethernet-like interfaces that support OAM. If the OAM layer  
does not support Event Notifications (as indicated via the  
dot3OamFunctionsSupported attribute), this value is ignored.  
"

DEFVAL { true }  
::= { dot3OamEventConfigEntry 11 }

dot3OamErrFrameSecsSummaryWindow OBJECT-TYPE

SYNTAX Integer32 (100..9000)  
UNITS "tenths of a second"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The amount of time (in 100 ms intervals) over which the  
threshold is defined. The default value is 100 (10 seconds).

If dot3OamErrFrameSecsSummaryThreshold frame errors occur  
within a window of dot3OamErrFrameSecsSummaryWindow (in tenths  
of seconds), an Event Notification OAMPDU should be generated  
with an Errored Frame

Seconds Summary Event TLV indicating  
that the threshold has been crossed in this window.  
"

REFERENCE "[802.3ah], 30.3.6.1.40"  
DEFVAL { 100 }  
::= { dot3OamEventConfigEntry 12 }

dot3OamErrFrameSecsSummaryThreshold OBJECT-TYPE

SYNTAX Integer32 (1..900)  
  
UNITS "errored frame seconds"  
MAX-ACCESS read-write  
STATUS current

## DESCRIPTION

"The number of errored frame seconds that must occur for this event to be triggered. The default value is one errored frame second. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFrameSecsSummaryThreshold frame errors occur within a window of dot3OamErrFrameSecsSummaryWindow (in tenths of seconds),  
an Event Notification OAMPDU should be generated with an Errored Frame Seconds Summary Event TLV indicating that the threshold has been crossed in this window.  
"

REFERENCE "[802.3ah], 30.3.6.1.40"

DEFVAL { 1 }

::= { dot3OamEventConfigEntry 13 }

dot3OamErrFrameSecsEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"If true, the local OAM entity should send an Event Notification OAMPDU when an Errored Frame Seconds Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.  
"

DEFVAL { true }

::= { dot3OamEventConfigEntry 14 }

dot3OamDyingGaspEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"If true, the local OAM entity should attempt to indicate a dying gasp via the OAMPDU flags field to its peer OAM entity when a dying gasp event occurs. The exact definition of a dying gasp event is implementation dependent. If the system

does not support dying gasp capability, setting this object has no effect, and reading the object should always result in 'false'.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

```
DEFVAL { true }  
::= { dot3OamEventConfigEntry 15 }
```

#### dot3OamCriticalEventEnable OBJECT-TYPE

```
SYNTAX TruthValue  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"If true, the local OAM entity should attempt to indicate  
a critical event via the OAMPDU flags to its peer OAM entity when a critical event occurs. The exact definition of a critical event is implementation dependent. If the system does not support critical event capability, setting this object has no effect, and reading the object should always result in 'false'.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

```
DEFVAL { true }  
::= { dot3OamEventConfigEntry 16 }
```

```
-- *****  
--  
-- Ethernet OAM Event Log group  
--
```

#### dot3OamEventLogTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF Dot3OamEventLogEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"This table records

a history of the events that have occurred

at the Ethernet OAM level. These events can include locally detected events, which may result in locally generated OAMPDUs, and remotely detected events, which are detected by the OAM peer entity and signaled to the local entity via

Ethernet OAM. Ethernet OAM events can be signaled by Event Notification OAMPDUs or by the flags field in any OAMPDU.

This table contains both threshold crossing events and non-threshold crossing events. The parameters for the threshold window, threshold value, and actual value (dot3OamEventLogWindowXX, dot3OamEventLogThresholdXX, dot3OamEventLogValue) are only applicable to threshold crossing events, and are returned as all F's ( $2^{32} - 1$ ) for non-threshold crossing events.

Entries in the table are automatically created when such events are detected. The size of the table is implementation dependent.

When the table reaches its maximum size, older entries are automatically deleted to make room for newer entries.

"

::= { dot3OamObjects 6 }

dot3OamEventLogEntry OBJECT-TYPE

SYNTAX Dot3OamEventLogEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the dot3OamEventLogTable. Entries are automatically created whenever Ethernet OAM events occur at the local OAM entity, and when Event Notification OAMPDUs are received at the local OAM entity (indicating that events have occurred at the peer OAM entity). The size of the table is implementation dependent, but when the table becomes full, older events are automatically deleted to make room for newer events. The table index dot3OamEventLogIndex increments for each new entry, and when the maximum value is reached, the value restarts at zero.

"

INDEX { ifIndex, dot3OamEventLogIndex

}

::= { dot3OamEventLogTable 1 }



Dot3OamEventLogEntry ::=

SEQUENCE {

dot3OamEventLogIndex Unsigned32,  
dot3OamEventLogTimestamp TimeStamp,  
dot3OamEventLogOui EightOTwoOui,  
dot3OamEventLogType Unsigned32,  
dot3OamEventLogLocation INTEGER,  
dot3OamEventLogWindowHi Unsigned32,  
dot3OamEventLogWindowLo Unsigned32,  
dot3OamEventLogThresholdHi Unsigned32,

dot3OamEventLogThresholdLo Unsigned32,  
dot3OamEventLogValue CounterBasedGauge64,  
dot3OamEventLogRunningTotal CounterBasedGauge64,  
dot3OamEventLogEventTotal Unsigned32

}

dot3OamEventLogIndex OBJECT-TYPE

SYNTAX Unsigned32(1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An arbitrary integer for identifying individual events  
within the event log. "

::= { dot3OamEventLogEntry 1 }

dot3OamEventLogTimestamp OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time of the logged event. For  
locally generated events, the time of the event can be  
accurately retrieved from sysUpTime. For remotely generated  
events, the time of the event is indicated by the reception of  
the Event Notification OAMPDU indicating that the event  
occurred on the peer. A system may attempt to adjust the  
timestamp value to more accurately reflect the time of the  
event at the peer OAM entity by using other information, such  
as that found in the timestamp found of the Event Notification  
TLVs, which provides an indication of the relative time  
between events at the peer entity. "

::= { dot3OamEventLogEntry 2 }

dot3OamEventLogOui OBJECT-TYPE

SYNTAX

EightOTwoOui  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The OUI of the entity defining the object type. All IEEE 802.3 defined events (as appearing in [802.3ah] except for the Organizationally Unique Event TLVs) use the IEEE 802.3 OUI of 0x0180C2. Organizations defining their own Event Notification TLVs include their OUI in the Event Notification TLV that gets reflected here. "  
::= { dot3OamEventLogEntry 3 }

dot3OamEventLogType OBJECT-TYPE  
SYNTAX Unsigned32

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The type of event that generated this entry in the event log. When the OUI is the IEEE 802.3 OUI of 0x0180C2, the following event types are defined:  
    erroredSymbolEvent(1),  
    erroredFramePeriodEvent(2),  
    erroredFrameEvent(3),  
    erroredFrameSecondsEvent(4),  
    linkFault(256),  
    dyingGaspEvent(257),  
    criticalLinkEvent(258)  
The first four are considered threshold crossing events, as they are generated when a metric exceeds a given value within a specified window. The other three are not threshold crossing events.  
  
When the OUI is not 71874 (0x0180C2 in hex), then some other organization has defined the event space. If event subtyping is known to the implementation, it may be reflected here. Otherwise, this value should return all F's ( $2^{32} - 1$ ).  
"  
REFERENCE "[802.3ah], 30.3.6.1.10 and 57.5.3."  
::= { dot3OamEventLogEntry 4 }

dot3OamEventLogLocation OBJECT-TYPE  
SYNTAX INTEGER { local(1), remote(2) }  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Whether this event occurred locally (local(1)), or was received from the OAM peer via Ethernet OAM (remote(2)).

"

::= { dot3OamEventLogEntry 5 }

dot3OamEventLogWindowHi OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventWindowHi and dot3OamEventWindowLo, form an unsigned 64-bit integer yielding the window over which the value was measured for the threshold crossing event (for example, 5, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 6 }

dot3OamEventLogWindowLo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventWindowHi and dot3OamEventWindowLo form an unsigned 64-bit integer yielding the window over which the value was measured for the threshold crossing event (for example, 5, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 7 }

dot3OamEventLogThresholdHi OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventThresholdHi and dot3OamEventThresholdLo form an unsigned 64-bit integer yielding the value that was crossed for the threshold crossing event (for example, 10, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 8 }

dot3OamEventLogThresholdLo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventThresholdHi and dot3OamEventThresholdLo form an unsigned 64-bit integer yielding the value that was crossed for the threshold crossing event (for example, 10, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 9 }

dot3OamEventLogValue OBJECT-TYPE

SYNTAX CounterBasedGauge64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, this value indicates the value of the parameter within the given window that generated this event (for example, 11, when 11 occurrences happened in 5 seconds while the threshold was 10).

Otherwise, this value is returned as all F's ( $2^{64} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 10 }

dot3OamEventLogRunningTotal OBJECT-TYPE

SYNTAX CounterBasedGauge64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Each Event Notification TLV contains a running total of the number of times an event has occurred, as well as the number of times an Event Notification for the event has been

transmitted. For non-threshold crossing events, the number of events (dot3OamLogRunningTotal) and the number of resultant Event Notifications (dot3OamLogEventTotal) should be identical.

For threshold crossing events, since multiple occurrences may be required to cross the threshold, these values are likely different. This value represents the total number of times this event has happened since the last reset (for example, 3253, when 3253 symbol errors have occurred since the last reset, which has resulted in 51 symbol error threshold crossing events since the last reset).

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 11 }

dot3OamEventLogEventTotal OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Each Event Notification TLV contains a running total of the number of times an event has occurred, as well as the number of times an Event Notification for the event has been transmitted. For non-threshold crossing events, the number of events (dot3OamLogRunningTotal) and the number of resultant Event Notifications (dot3OamLogEventTotal) should be identical.

For threshold crossing events, since multiple occurrences may be required to cross the threshold, these values are likely different. This value represents the total number of times one or more of these

occurrences have resulted in an Event

Notification (for example, 51 when 3253 symbol errors have occurred since the last reset, which has resulted in 51 symbol error threshold crossing events since the last reset).

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 12 }

-- \*\*\*\*\*

--

-- Ethernet OAM Notifications

--

dot3OamThresholdEvent NOTIFICATION-TYPE

OBJECTS { dot3OamEventLogTimestamp,  
dot3OamEventLogOui,

dot3OamEventLogType,  
dot3OamEventLogLocation,  
dot3OamEventLogWindowHi,  
dot3OamEventLogWindowLo,  
dot3OamEventLogThresholdHi,  
dot3OamEventLogThresholdLo,  
dot3OamEventLogValue,  
dot3OamEventLogRunningTotal,  
dot3OamEventLogEventTotal

}

STATUS current

DESCRIPTION

"A dot3OamThresholdEvent notification is sent when a local or remote threshold crossing event is detected. A local

threshold crossing event is detected by the local entity, while a remote threshold crossing event is detected by the reception of an Ethernet OAM Event Notification OAMPDU that indicates a threshold event.

This notification should not be sent more than once per second.

The OAM entity can be derived from extracting the ifIndex from the variable bindings. The objects in the notification correspond to the values in a row instance in the dot3OamEventLogTable.

The management entity should periodically check dot3OamEventLogTable to detect any missed events."  
::= { dot3OamNotifications 1 }

dot3OamNonThresholdEvent NOTIFICATION-TYPE

OBJECTS { dot3OamEventLogTimestamp,  
dot3OamEventLogOui,  
dot3OamEventLogType,  
dot3OamEventLogLocation,  
dot3OamEventLogEventTotal  
}

STATUS current

DESCRIPTION

"A dot3OamNonThresholdEvent notification is sent when a local or remote non-threshold crossing event is detected. A local event is detected by the local entity, while a remote event is detected by the reception of an Ethernet OAM Event Notification OAMPDU that indicates a non-threshold crossing event.

This notification should not be sent more than once per

second.

The OAM entity can be derived from extracting the ifIndex from the variable bindings. The objects in the notification correspond to the values in a row instance of the dot3OamEventLogTable.

The management entity should periodically check dot3OamEventLogTable to detect any missed events."  
::= { dot3OamNotifications 2 }

```

-- *****
--
-- Ethernet OAM Compliance
group
--

dot3OamGroups OBJECT IDENTIFIER ::= { dot3OamConformance 1 }
dot3OamCompliances OBJECT IDENTIFIER ::= { dot3OamConformance 2 }

-- Compliance statements

dot3OamCompliance MODULE-COMPLIANCE
STATUS      current
DESCRIPTION "The compliance statement for managed entities
            supporting OAM on Ethernet-like interfaces.
            "
MODULE -- this module
MANDATORY-GROUPS { dot3OamControlGroup,
                   dot3OamPeerGroup,
                   dot3OamStatsBaseGroup
                   }

GROUP      dot3OamLoopbackGroup
DESCRIPTION
"This group is mandatory for all IEEE 802.3 OA
implementations that support loopback functionality. "

GROUP      dot3OamErrSymbolPeriodEventGroup
DESCRIPTION
"This group is mandatory for all IEEE 802.3 OA
implementations that support event functionality. "

GROUP      dot3OamErrFramePeriodEventGroup
DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA
implementations that support event functionality. "

GROUP      dot3OamErrFrameEventGroup

DESCRIPTION
"This group is mandatory for all IEEE 802.3 OA
implementations that support event functionality. "

GROUP      dot3OamErrFrameSecsSummaryEventGroup
DESCRIPTION

```



"This group is mandatory for all IEEE 802.3 OA implementations that support event functionality. "

GROUP dot3OamFlagEventGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. The ability to send critical events or dying gasp events is not required in any system."

GROUP dot3OamEventLogGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. Entries in this table are dependent on what event functionality is supported in the local OA implementation. At least one type of event must be supported for entries to appear in this table. "

GROUP dot3OamNotificationGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. Since the information in the notifications is dependent on the dot3OamEventLogTable, that table must be implemented for notifications. "

::= { dot3OamCompliances 1 }

dot3OamControlGroup OBJECT-GROUP

OBJECTS { dot3OamAdminState,  
dot3OamOperStatus,  
dot3OamMode,  
dot3OamMaxOamPduSize,  
dot3OamConfigRevision,  
dot3OamFunctionsSupported  
}

STATUS current

DESCRIPTION

"A collection of objects providing the abilities, configuration, and status of an Ethernet OAM entity. "

::= { dot3OamGroups 1 }

dot3OamPeerGroup OBJECT-GROUP

OBJECTS { dot3OamPeerMacAddress,

dot3OamPeerVendorOui,

```

    dot3OamPeerVendorInfo,
    dot3OamPeerMode,
    dot3OamPeerFunctionsSupported,
    dot3OamPeerMaxOamPduSize,
    dot3OamPeerConfigRevision
}
STATUS    current
DESCRIPTION
"A collection of objects providing the abilities,
configuration, and status of a peer Ethernet OAM entity. "
::= { dot3OamGroups 2 }

```

dot3OamStatsBaseGroup OBJECT-GROUP

```

OBJECTS   { dot3OamInformationTx,
            dot3OamInformationRx,
            dot3OamUniqueEventNotificationTx,
            dot3OamUniqueEventNotificationRx,
            dot3OamDuplicateEventNotificationTx,
            dot3OamDuplicateEventNotificationRx,
            dot3OamLoopbackControlTx,
            dot3OamLoopbackControlRx,
            dot3OamVariableRequestTx,
            dot3OamVariableRequestRx,
            dot3OamVariableResponseTx,
            dot3OamVariableResponseRx,
            dot3OamOrgSpecificTx,
            dot3OamOrgSpecificRx,
            dot3OamUnsupportedCodesTx,
            dot3OamUnsupportedCodesRx,
            dot3OamFramesLostDueToOam
}

```

STATUS current

DESCRIPTION

"A collection of objects providing the statistics for the number of various transmit and receive events for OAM on an Ethernet-like interface. Note that all of these counters must be supported even if the related function (as described in dot3OamFunctionsSupported) is not supported. "

```

::= { dot3OamGroups 3 }

```

dot3OamLoopbackGroup OBJECT-GROUP

```

OBJECTS   { dot3OamLoopbackStatus,
            dot3OamLoopbackIgnoreRx
}

```

STATUS current

DESCRIPTION

"A collection of objects for controlling the OAM remote

loopback function. "

::= { dot3OamGroups 4 }

dot3OamErrSymbolPeriodEventGroup OBJECT-GROUP

OBJECTS { dot3OamErrSymPeriodWindowHi,  
dot3OamErrSymPeriodWindowLo,  
dot3OamErrSymPeriodThresholdHi,  
dot3OamErrSymPeriodThresholdLo,  
dot3OamErrSymPeriodEvNotifEnable  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Symbol Period Event.

Each [802.3ah] defined Event Notification TLV has its own conformance group because each event can be implemented independently of any other. "

::= { dot3OamGroups 5 }

dot3OamErrFramePeriodEventGroup OBJECT-GROUP

OBJECTS { dot3OamErrFramePeriodWindow,  
dot3OamErrFramePeriodThreshold,  
dot3OamErrFramePeriodEvNotifEnable  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Frame Period Event.

Each [802.3ah] defined Event Notification TLV has its own conformance group because each event can be implemented independently of any other. "

::= { dot3OamGroups 6 }

dot3OamErrFrameEventGroup OBJECT-GROUP

OBJECTS { dot3OamErrFrameWindow,  
dot3OamErrFrameThreshold,  
dot3OamErrFrameEvNotifEnable  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Frame Event.

Each [802.3ah] defined Event Notification TLV has its own conformance group because each event can be implemented independently of any other. "

::= { dot3OamGroups 7 }

dot3OamErrFrameSecsSummaryEventGroup OBJECT-GROUP

OBJECTS { dot3OamErrFrameSecsSummaryWindow,  
dot3OamErrFrameSecsSummaryThreshold,  
dot3OamErrFrameSecsEvNotifEnable  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Frame Seconds Summary Event.

Each [802.3ah] defined Event Notification TLV has its own conformance group because each event can be implemented independently of any other. "

::= { dot3OamGroups 8 }

dot3OamFlagEventGroup OBJECT-GROUP

OBJECTS { dot3OamDyingGaspEnable,  
dot3OamCriticalEventEnable  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the sending OAMPDUs with the critical event flag or dying gasp flag enabled. "

::= { dot3OamGroups 9 }

dot3OamEventLogGroup OBJECT-GROUP

OBJECTS { dot3OamEventLogTimestamp,  
dot3OamEventLogOui,  
dot3OamEventLogType,  
dot3OamEventLogLocation,  
dot3OamEventLogWindowHi,  
dot3OamEventLogWindowLo,  
dot3OamEventLogThresholdHi,  
dot3OamEventLogThresholdLo,  
dot3OamEventLogValue,  
dot3OamEventLogRunningTotal,  
dot3OamEventLogEventTotal  
}

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Frame Seconds Summary Event and maintaining the event information. "

::= { dot3OamGroups 10 }

dot3OamNotificationGroup NOTIFICATION-GROUP

NOTIFICATIONS {

dot3OamThresholdEvent,  
dot3OamNonThresholdEvent  
}

STATUS current

DESCRIPTION

"A collection of notifications used by Ethernet OAM to signal to a management entity that local or remote events have occurred on a specified Ethernet link. "

::= { dot3OamGroups 11 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB

No license file was found, but licenses were detected in source scan.

IPSEC-SPD-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, Integer32,  
Unsigned32, mib-2 FROM SNMPv2-SMI  
-- [RFC2578]

TEXTUAL-CONVENTION, RowStatus, TruthValue,  
TimeStamp, StorageType, VariablePointer  
FROM SNMPv2-TC  
-- [RFC2579]

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP  
FROM SNMPv2-CONF  
-- [RFC2580]

InterfaceIndex

FROM IF-MIB

-- [RFC2863]

diffServMIBMultiFieldClfrGroup, IfDirection,  
diffServMultiFieldClfrNextFree

FROM DIFFSERV-MIB

-- [RFC3289]

InetAddressType, InetAddress

FROM INET-ADDRESS-MIB

-- [RFC4001]

SnmpAdminString

FROM SNMP-FRAMEWORK-MIB

-- [RFC3411]

;

--

-- module identity

--

spdMIB MODULE-IDENTITY

LAST-UPDATED "200702070000Z" -- 7 February 2007

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#### DESCRIPTION

"This MIB module defines configuration objects for managing IPsec Security Policies. In general, this MIB can be implemented anywhere IPsec security services exist (e.g., bump-in-the-wire, host, gateway, firewall, router, etc.).

Copyright (C) The IETF Trust (2007). This version of this MIB module is part of RFC 4807; see the RFC itself for full legal notices."

#### -- Revision History

REVISION "200702070000Z" -- 7 February 2007  
DESCRIPTION "Initial version, published as RFC 4807."

::= { mib-2 153 }

--

-- groups of related objects

--

spdConfigObjects OBJECT IDENTIFIER

::= { spdMIB 1 }

spdNotificationObjects

OBJECT IDENTIFIER

::= { spdMIB 2 }

spdConformanceObjects OBJECT IDENTIFIER

::= { spdMIB 3 }

spdActions OBJECT IDENTIFIER

::= { spdMIB 4 }

--

-- Textual Conventions

--

SpdBooleanOperator ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The SpdBooleanOperator operator is used to specify

whether sub-components in a decision-making process are

ANDed or ORed together to decide if the resulting expression is true or false."

SYNTAX INTEGER { or(1), and(2) }

SpdAdminStatus ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The SpdAdminStatus is used to specify the administrative status of an object. Objects that are disabled MUST NOT be used by the packet processing engine."

SYNTAX INTEGER { enabled(1), disabled(2) }

SpdIPPacketLogging ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"SpdIPPacketLogging specifies whether an audit message

SHOULD be logged if a packet is passed through a Security Association (SA) and if some of that packet is included in the log event. A value of '-1' indicates no logging. A value of '0' or greater indicates that logging SHOULD be done and indicates the number of bytes starting at the beginning of the packet to place in the log. Values greater than the size of the packet being processed indicate that the entire packet SHOULD be sent.

Examples:

'-1' no logging

'0' log but do not include any of the packet in the log

'20' log and include the first 20 bytes of the packet in the log."

SYNTAX Integer32 (-1..65535)

SpdTimePeriod ::= TEXTUAL-CONVENTION

DISPLAY-HINT "31t"

STATUS current

DESCRIPTION

"This property identifies an overall range of calendar dates and time. In a boolean context, a value within this time

range, inclusive, is considered true.



This information is encoded as an octet string using the UTF-8 transformation format described in STD 63, RFC 3629.

It uses the format suggested in RFC 3060. An octet string

represents a start date and time and an end date and time.

For example:

yyyymmddThhmmss/yyyymmddThhmmss

Where: yyyy = year mm = month dd = day

hh = hour mm = minute ss = second

The first 'yyyymmddThhmmss' sub-string indicates the start date and time. The second 'yyyymmddThhmmss' sub-string indicates the end date and time. The character 'T' within these sub-strings indicates the beginning of the time portion of each sub-string. The solidus character '/' separates the start from the end date and time. The end date and time MUST be subsequent to the start date and

time.

There are also two allowed substitutes for a 'yyyymmddThhmmss' sub-string: one for the start date and time, and one for the end date and time.

If the start date and time are replaced with the string 'THISANDPRIOR', this sub-string would indicate the current date and time and the previous dates and time.

If the end date and time are replaced with the string 'THISANDFUTURE', this sub-string would indicate the current date and time and the subsequent dates and time.

Any of the following SHOULD be considered a 'wrongValue' error:

- Setting a value with the end date and time earlier than or equal to the start date and time.
- Setting the start date and time to 'THISANDFUTURE'.
- Setting the end date and time to 'THISANDPRIOR'."

REFERENCE "RFC 3060, 3269"

SYNTAX OCTET STRING (SIZE (0..31))

--

-- Policy group definitions

--

spdLocalConfigObjects

OBJECT IDENTIFIER

::= { spdConfigObjects 1 }

spdIngressPolicyGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object indicates the global system policy group that is to be applied on ingress packets (i.e., arriving at an interface from a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable. Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for ingress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"

DEFVAL { "" }

::= { spdLocalConfigObjects 1 }

spdEgressPolicyGroupName OBJECT-TYPE

SYNTAX

SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object indicates the policy group containing the global system policy that is to be applied on egress packets (i.e., packets leaving an interface and entering a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable. Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for egress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"  
DEFVAL { "" }  
::= { spdLocalConfigObjects 2 }

spdEndpointToGroupTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdEndpointToGroupEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"This table maps policies (groupings) onto an endpoint (interface). A policy group assigned to an endpoint is then used to control access to the network traffic passing through that endpoint.

If an endpoint has been configured with a policy group and no rule within that policy group matches that packet, the default action in this case SHALL be to drop the packet.

If no policy group has been assigned to an endpoint, then the policy group specified by spdIngressPolicyGroupName MUST be used on traffic inbound from the network through that endpoint, and the policy group specified by spdEgressPolicyGroupName MUST be used for traffic outbound to the network through that endpoint."

::= { spdConfigObjects 2 }

spdEndpointToGroupEntry OBJECT-TYPE

SYNTAX SpdEndpointToGroupEntry  
MAX-ACCESS not-accessible  
STATUS  
current

DESCRIPTION

"A mapping assigning a policy group to an endpoint."

INDEX { spdEndGroupDirection, spdEndGroupInterface }  
::= { spdEndpointToGroupTable 1 }

SpdEndpointToGroupEntry ::= SEQUENCE {

|                        |                  |
|------------------------|------------------|
| spdEndGroupDirection   | IfDirection,     |
| spdEndGroupInterface   | InterfaceIndex,  |
| spdEndGroupName        | SnmpAdminString, |
| spdEndGroupLastChanged | TimeStamp,       |
| spdEndGroupStorageType | StorageType,     |
| spdEndGroupRowStatus   | RowStatus        |

}

spdEndGroupDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates which direction of packets crossing the interface are associated with which spdEndGroupName object. Ingress packets, or packets into the device match when this value is inbound(1). Egress packets or packets out

of the device match when this value is outbound(2)."

::= { spdEndpointToGroupEntry 1 }

spdEndGroupInterface OBJECT-TYPE

SYNTAX InterfaceIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value matches the IF-MIB's ifTable's ifIndex column and indicates the interface associated with a given endpoint. This object can be used to uniquely identify an endpoint that a set of policy groups are applied to."

::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The policy group name to apply at this endpoint. The value of the spdEndGroupName object is then used as an index into the spdGroupContentsTable to come up with a list of rules that MUST be applied at this endpoint."

::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other

external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object is considered 'notReady' and MUST NOT be set to active until one or more active rows exist within the spdGroupContentsTable for the group referenced by the spdEndGroupName object."

::= { spdEndpointToGroupEntry 6 }

--

-- policy group definition table

--

spdGroupContentsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table contains a list of rules and/or subgroups contained within a given policy group. For a given value of `spdGroupContName`, the set of rows sharing that value forms a 'group'. The rows in a group MUST be processed according to the value of the `spdGroupContPriority`

object

in each row. The processing MUST be executed starting with the lowest value of `spdGroupContPriority` and in ascending order thereafter.

If an action is executed as the result of the processing of a row in a group, the processing of further rows in that group MUST stop. Iterating to the next policy group row by finding the next largest `spdGroupContPriority` object SHALL only be done if no actions were run while processing the current row for a given packet."

::= { `spdConfigObjects` 3 }

`spdGroupContentsEntry` OBJECT-TYPE

SYNTAX `SpdGroupContentsEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a given sub-component within a policy group. A sub-component is either a rule or another group as indicated by `spdGroupContComponentType` and referenced by `spdGroupContComponentName`."

INDEX { `spdGroupContName`,

`spdGroupContPriority` }

::= { `spdGroupContentsTable` 1 }

`SpdGroupContentsEntry` ::= SEQUENCE {

`spdGroupContName` `SnmpAdminString`,

`spdGroupContPriority` `Integer32`,

`spdGroupContFilter` `VariablePointer`,

`spdGroupContComponentType` `INTEGER`,

`spdGroupContComponentName` `SnmpAdminString`,

`spdGroupContLastChanged` `TimeStamp`,

`spdGroupContStorageType` `StorageType`,

`spdGroupContRowStatus` `RowStatus`

}

`spdGroupContName` OBJECT-TYPE

SYNTAX `SnmpAdminString (SIZE(1..32))`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name of the group associated with this row. A 'group' is formed by all the rows in this table that have the same value of this object."

::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority (sequence number) of the sub-component in a group that this row represents. This value indicates the order that each row of this table MUST be processed from low to high. For example, a row with a priority of 0 is processed before a row with a priority of 1, a 1 before a 2, etc."

::= { spdGroupContentsEntry 2 }

spdGroupContFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdGroupContFilter points to a filter that is evaluated to determine whether the spdGroupContComponentName within this row is exercised. Managers can use this object to classify groups of rules, or subgroups, together in order to achieve a greater degree of control and optimization over the execution order of the items within the group. If the

filter evaluates to false, the rule or subgroup will be skipped and the next rule or subgroup will be evaluated instead. This value can be used to indicate a scalar or row in a table. When indicating a row in a table, this value MUST point to the first column instance in that row.

An example usage of this object would be to limit a group of rules to executing only when the IP packet being processed is designated to be processed by IKE. This effectively creates a group of IKE-specific rules.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB:

diffServMultiFieldClfrTable  
spdIpOffsetFilterTable  
spdTimeFilterTable  
spdCompoundFilterTable  
spdTrueFilter  
spdIpsHeaderFilterTable

Implementations MAY choose to provide support for other filter tables or scalars.

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, a row in this table is applied to a packet and the value of this column in that row references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

DEFVAL { spdTrueFilterInstance }

::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE

SYNTAX INTEGER { group(1), rule(2) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the spdGroupContComponentName object is the name of another group

defined within the

spdGroupContentsTable or is the name of a rule defined

within the spdRuleDefinitionTable."

DEFVAL { rule }

::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))



MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The name of the policy rule or subgroup contained within  
this row, as indicated by the spdGroupContComponentType  
object."  
::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE  
SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The value of sysUpTime when this row was last modified  
or created either through SNMP SETs or by some other  
external means.  
  
If this row has not been modified since the last  
re-initialization of the network management subsystem,  
this object SHOULD have a zero value."  
::= { spdGroupContentsEntry  
6 }

spdGroupContStorageType OBJECT-TYPE  
SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The storage type for this row. Rows in this table that  
were created through an external process MAY have a storage  
type of readOnly or permanent.  
  
For a storage type of permanent, none of the columns have  
to be writable."  
DEFVAL { nonVolatile }  
::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE  
SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object indicates the conceptual status of this row.  
  
The value of this object has no effect on whether other  
objects in this conceptual row can be modified.

This object MUST NOT be set to active until the row to which the spdGroupContComponentName points to exists and is active.

If active, this object MUST remain active unless one of the following two conditions are met:

I. No active row in spdEndpointToGroupTable exists that references this row's group (i.e., indicate this row's spdGroupContName).

II. Or at least one other active row in this table has a matching spdGroupContName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

::= { spdGroupContentsEntry 8 }

--  
-- policy definition table  
--

spdRuleDefinitionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdRuleDefinitionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines a rule by associating a filter or a set of filters to an action to be executed."

::= { spdConfigObjects 4 }

spdRuleDefinitionEntry OBJECT-TYPE

SYNTAX SpdRuleDefinitionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row defining a particular rule definition. A rule definition binds a filter pointer to an action pointer."

INDEX { spdRuleDefName }

::= { spdRuleDefinitionTable 1 }

SpdRuleDefinitionEntry ::= SEQUENCE {

spdRuleDefName SnmpAdminString,

```

spdRuleDefDescription      SnmpAdminString,
spdRuleDefFilter           VariablePointer,
spdRuleDefFilterNegated   TruthValue,
spdRuleDefAction          VariablePointer,
spdRuleDefAdminStatus     SpdAdminStatus,
spdRuleDefLastChanged     TimeStamp,
spdRuleDefStorageType     StorageType,
spdRuleDefRowStatus       RowStatus
}

```

**spdRuleDefName OBJECT-TYPE**

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"spdRuleDefName is the administratively assigned name of

the rule referred to by the spdGroupContComponentName  
object."

::= { spdRuleDefinitionEntry 1 }

**spdRuleDefDescription OBJECT-TYPE**

SYNTAX SnmpAdminString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A user defined string. This field MAY be used for  
administrative tracking purposes."

DEFVAL { "" }

::= { spdRuleDefinitionEntry 2 }

**spdRuleDefFilter OBJECT-TYPE**

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdRuleDefFilter points to a filter that is used to  
evaluate whether the action associated with this row is  
executed or not. The action will only execute if the  
filter referenced by this object evaluates to TRUE after  
first applying any negation required by the  
spdRuleDefFilterNegated object.

The following tables and scalars can be pointed to by this  
column. All but diffServMultiFieldClfrTable

are defined in

this MIB. Implementations MAY choose to provide support for other filter tables or scalars as well:

diffServMultiFieldClfrTable

spdIpOffsetFilterTable

spdTimeFilterTable

spdCompoundFilterTable

spdTrueFilter

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdRuleDefinitionEntry 3 }

spdRuleDefFilterNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS

read-create

STATUS current

DESCRIPTION

"spdRuleDefFilterNegated specifies whether or not the results of the filter referenced by the spdRuleDefFilter object is negated."

DEFVAL { false }

::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable

ipsaSaPreconfiguredActionTable

ipiaIkeActionTable

ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath  
spdStaticActions.

If this object is set to a pointer to a row in an  
unsupported (or unknown) table, an inconsistentValue

error MUST be returned.

If this object is set to point to a non-existent  
row in an  
otherwise supported table, an inconsistentName error MUST  
be returned.

If, during packet processing, this column has a value that  
references a non-existent or non-supported object, the  
packet MUST be dropped."

::= { spdRuleDefinitionEntry 5 }

spdRuleDefAdminStatus OBJECT-TYPE

SYNTAX SpdAdminStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the current rule definition is considered  
active. If the value is enabled, the rule MUST be evaluated  
when processing packets. If the value is disabled, the  
packet processing MUST continue as if this rule's filter  
had effectively failed."

DEFVAL { enabled }

::= { spdRuleDefinitionEntry 6 }

spdRuleDefLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified

or created either through SNMP SETs or by some other  
external means.

If this row has not been modified since the last

re-initialization of the network management subsystem, this object SHOULD have a zero value."  
::= { spdRuleDefinitionEntry 7 }

spdRuleDefStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have

to be writable."

DEFVAL { nonVolatile }  
::= { spdRuleDefinitionEntry 8 }

spdRuleDefRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object MUST NOT be set to active until the containing conditions, filters, and actions have been defined. Once active, it MUST remain active until no active policyGroupContents entries are referencing it. A failed attempt to do so MUST return an inconsistentValue error."

::= { spdRuleDefinitionEntry 9 }

--

-- Policy compound filter definition table

--

spdCompoundFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundFilterEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

"A table defining compound filters and their associated parameters. A row in this table can be pointed to by a spdRuleDefFilter object."

::= { spdConfigObjects 5 }

spdCompoundFilterEntry OBJECT-TYPE

SYNTAX SpdCompoundFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry

in the spdCompoundFilterTable. Each entry in this table represents a compound filter. A filter defined by this table is considered to have a TRUE return value if and only if:

spdCompFiltLogicType is AND and all of the sub-filters associated with it, as defined in the spdSubfiltersTable, are all true themselves (after applying any required

negation, as defined by the ficFilterIsNegated object).

spdCompFiltLogicType is OR and at least one of the sub-filters associated with it, as defined in the spdSubfiltersTable, is true itself (after applying any required negation, as defined by the ficFilterIsNegated object."

INDEX { spdCompFiltName }

::= { spdCompoundFilterTable 1 }

SpdCompoundFilterEntry ::= SEQUENCE {

|                        |                     |
|------------------------|---------------------|
| spdCompFiltName        | SnmAdminString,     |
| spdCompFiltDescription | SnmAdminString,     |
| spdCompFiltLogicType   |                     |
|                        | SpdBooleanOperator, |
| spdCompFiltLastChanged | TimeStamp,          |
| spdCompFiltStorageType | StorageType,        |
| spdCompFiltRowStatus   | RowStatus           |

}

spdCompFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A user definable string. This value is used as an index

into this table."

::= { spdCompoundFilterEntry 1 }

spdCompFiltDescription OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A user definable string. This field MAY be used for your administrative tracking purposes."

DEFVAL { "" }

::= { spdCompoundFilterEntry 2 }

spdCompFiltLogicType OBJECT-TYPE

SYNTAX SpdBooleanOperator

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the sub-component filters of this compound

filter are functionally ANDed or ORed together."

DEFVAL { and }

::= { spdCompoundFilterEntry 3 }

spdCompFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdCompoundFilterEntry 4 }

spdCompFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a



storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdCompoundFilterEntry 5 }

spdCompFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once active, it MUST NOT have its value changed if any active rows in the spdRuleDefinitionTable are currently pointing at this row."

::= { spdCompoundFilterEntry 6 }

--

-- Policy filters in a cf table

--

spdSubfiltersTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines a list of filters contained within a given compound filter defined in the spdCompoundFilterTable."

::= { spdConfigObjects 6 }

spdSubfiltersEntry OBJECT-TYPE

SYNTAX SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the spdSubfiltersTable. There is an entry in this table for each sub-filter of all compound filters present in the spdCompoundFilterTable."

INDEX { spdCompFiltName, spdSubFiltPriority }  
 ::= { spdSubfiltersTable 1 }

SpdSubfiltersEntry ::= SEQUENCE {  
 spdSubFiltPriority Integer32,  
 spdSubFiltSubfilter VariablePointer,  
 spdSubFiltSubfilterIsNegated TruthValue,  
 spdSubFiltLastChanged TimeStamp,  
 spdSubFiltStorageType StorageType,  
 spdSubFiltRowStatus RowStatus  
}

spdSubFiltPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given filter within a compound filter.  
The order of execution is from lowest to highest priority  
value (i.e., priority 0 before priority 1, 1 before 2,  
etc.). Implementations MAY choose to follow this ordering,  
as set by the manager that created the rows. This can allow  
a manager to intelligently construct filter lists such that  
faster filters are evaluated first."

::= { spdSubfiltersEntry 1 }

spdSubFiltSubfilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The OID of the contained filter. The value of this  
object is a VariablePointer that references the filter to  
be included in this compound filter.

The following tables and scalars can be pointed to by this  
column. All but diffServMultiFieldClfrTable are defined in  
this MIB. Implementations MAY choose to provide support  
for other filter tables or scalars as well:

- diffServMultiFieldClfrTable
- spdIpsHeaderFilterTable
- spdIpOffsetFilterTable
- spdTimeFilterTable
- spdCompoundFilterTable

## spdTrueFilter

If this column is set to a VariablePointer value that references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdSubfiltersEntry 2 }

## spdSubFiltSubfilterIsNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether or not the result of applying this sub-filter is negated."

DEFVAL { false }

::= { spdSubfiltersEntry  
3 }

## spdSubFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdSubfiltersEntry 4 }

## spdSubFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

```
DEFVAL { nonVolatile }  
::= { spdSubfiltersEntry 5 }
```

spdSubFiltRowStatus OBJECT-TYPE

SYNTAX

RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object cannot be made active until a filter referenced by the spdSubFiltSubfilter object is both defined and active. An attempt to do so MUST result in an inconsistentValue error.

If active, this object MUST remain active unless one of the following two conditions are met:

- I. No active row in the SpdCompoundFilterTable exists that has a matching spdCompFiltName.
- II. Or, at least one other active row in this table has a matching spdCompFiltName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

```
::=  
{ spdSubfiltersEntry 6 }
```

```
--  
-- Static Filters  
--
```

```
spdStaticFilters OBJECT IDENTIFIER ::= { spdConfigObjects 7 }
```

spdTrueFilter OBJECT-TYPE

SYNTAX Integer32 (1)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This scalar indicates a (automatic) true result for a filter. That is, this is a filter that is always true; it is useful for adding as a default filter for a default action or a set of actions."

::= { spdStaticFilters 1 }

spdTrueFilterInstance OBJECT IDENTIFIER ::= { spdTrueFilter 0 }

--

-- Policy IP Offset filter definition table

--

spdIpOffsetFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdIpOffsetFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable.

This type of filter is used to compare an administrator specified octet string to the octets at a particular location in a packet."

::= { spdConfigObjects 8 }

spdIpOffsetFilterEntry OBJECT-TYPE

SYNTAX SpdIpOffsetFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpOffFiltName }

::= { spdIpOffsetFilterTable 1 }

SpdIpOffsetFilterEntry ::= SEQUENCE {

```

spdIpOffFiltName          SnmpAdminString,
spdIpOffFiltOffset        Unsigned32,
spdIpOffFiltType          INTEGER,
spdIpOffFiltValue         OCTET STRING,
spdIpOffFiltLastChanged   TimeStamp,
spdIpOffFiltStorageType   StorageType,
spdIpOffFiltRowStatus     RowStatus
}

```

spdIpOffFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpOffsetFilterEntry 1 }

spdIpOffFiltOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is the byte offset from the front of the entire IP packet where the value or arithmetic comparison is done. A value of '0' indicates the first byte of the packet header. If this value is greater than the length of the packet, the filter represented by this row should be considered to fail."

::= { spdIpOffsetFilterEntry 2 }

spdIpOffFiltType OBJECT-TYPE

SYNTAX INTEGER { equal(1),  
notEqual(2),  
arithmeticLess(3),  
arithmeticGreaterOrEqual(4),  
arithmeticGreater(5),  
arithmeticLessOrEqual(6) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This defines the various tests that are used when evaluating a given filter."

The various tests definable in this table are as follows:

equal:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', matches

a value in the packet starting at the given offset in the packet and comparing the entire OCTET STRING of 'spdIpOffFiltValue'. Any values compared this way are assumed to be unsigned integer values in network byte order of the same length as 'spdIpOffFiltValue'.

notEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', does not match a value in the packet starting at the given offset in the packet and comparing to the entire OCTET STRING of 'spdIpOffFiltValue'. Any values compared this way are assumed to be unsigned integer values in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLess:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than ('<') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreaterOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than or equal to ('>=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreater:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than ('>') the value starting at the given offset within the packet. The value in the packet is  
assumed to be an unsigned integer in network  
byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLessOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than or equal to ('<=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as

'spdIpOffFiltValue'.

::= { spdIpOffsetFilterEntry 3 }

spdIpOffFiltValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1..1024))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdIpOffFiltValue is used for match comparisons of a packet at spdIpOffFiltOffset."

::= { spdIpOffsetFilterEntry 4 }

spdIpOffFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpOffsetFilterEntry 5 }

spdIpOffFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpOffsetFilterEntry 6 }

spdIpOffFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus



MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of  
this object has no effect on whether other  
objects in this conceptual row can be modified.

If active, this object MUST remain active if it is

referenced by an active row in another table. An attempt  
to set it to anything other than active while it is  
referenced by an active row in another table MUST result in  
an inconsistentValue error."

::= { spdIpOffsetFilterEntry 7 }

--

-- Time/scheduling filter table

--

spdTimeFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a table of filters that can be used to  
effectively enable or disable policies based on a valid  
time range."

::= { spdConfigObjects 9 }

spdTimeFilterEntry OBJECT-TYPE

SYNTAX SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row describing a given time frame for which a policy  
is filtered on to activate or deactivate the rule.

If all the column objects in a row are true for the current  
time, the row evaluates as 'true'. More explicitly, the  
time matching column objects in a row MUST be logically  
ANDed together to form the boolean true/false for the row."

INDEX { spdTimeFiltName }

::= { spdTimeFilterTable 1 }

```

SpdTimeFilterEntry ::= SEQUENCE {
    spdTimeFiltName      SnpAdminString,
    spdTimeFiltPeriod    SpdTimePeriod,
    spdTimeFiltMonthOfYearMask  BITS,
    spdTimeFiltDayOfMonthMask  OCTET STRING,
    spdTimeFiltDayOfWeekMask   BITS,
    spdTimeFiltTimeOfDayMask   SpdTimePeriod,
    spdTimeFiltLastChanged    TimeStamp,
    spdTimeFiltStorageType    StorageType,
    spdTimeFiltRowStatus     RowStatus
}

```

```

spdTimeFiltName OBJECT-TYPE
    SYNTAX      SnpAdminString (SIZE(1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An administratively assigned name for this filter."
    ::= { spdTimeFilterEntry 1 }

```

```

spdTimeFiltPeriod OBJECT-TYPE
    SYNTAX      SpdTimePeriod
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The valid time period for this filter. This column is
        considered 'true' if the current time is within the range of
        this object."
    DEFVAL { "THISANDPRIOR/THISANDFUTURE" }
    ::= { spdTimeFilterEntry 2 }

```

```

spdTimeFiltMonthOfYearMask OBJECT-TYPE
    SYNTAX      BITS { january(0), february(1), march(2),
        april(3), may(4), june(5), july(6),
        august(7), september(8), october(9),
        november(10), december(11) }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "A bit mask that indicates acceptable months of the year.
        This column evaluates to 'true' if the current month's bit
        is set."

```

```
DEFVAL { { january, february, march,  
april, may, june, july,  
    august, september, october, november, december } }  
::= { spdTimeFilterEntry 3 }
```

spdTimeFiltDayOfMonthMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(8))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Defines which days of the month the current time is valid for. It is a sequence of 64 BITS, where each BIT represents a corresponding day of the month in forward or reverse order. Starting from the left-most bit, the first 31 bits identify the day of the month, counting from the beginning of the month. The following 31 bits (bits 32-62) indicate the day of the month, counting from the end of the

month. For months with fewer than 31 days, the bits that correspond to the non-existent days of that month are ignored (e.g., for non-leap year Februaries, bits 29-31 and 60-62 are ignored).

This column evaluates to 'true' if the current day of the month's bit is set.

For example, a value of 0X'80 00 00 01 00 00 00 00' indicates that this column evaluates to true on the first and last days of the month.

The last two bits in the string MUST be zero."

```
DEFVAL { 'ffffffffffffe'H }  
::= { spdTimeFilterEntry 4 }
```

spdTimeFiltDayOfWeekMask OBJECT-TYPE

SYNTAX BITS { sunday(0), monday(1), tuesday(2),  
 wednesday(3), thursday(4), friday(5),  
 saturday(6) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A bit mask that defines which days of the week that the current time is valid for. This column evaluates to 'true' if the current day of the week's bit is set."

```
DEFVAL { { monday, tuesday, wednesday, thursday, friday,
```

```
    saturday, sunday } }  
 ::= { spdTimeFilterEntry 5 }
```

#### spdTimeFiltTimeOfDayMask OBJECT-TYPE

SYNTAX SpdTimePeriod

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Indicates the start and end time of the day for which this filter evaluates to true. The date portions of the spdTimePeriod TC are ignored for purposes of evaluating this mask, and only the time-specific portions are used.

This column evaluates to 'true' if the current time of day is within the range of the start and end times of the day indicated by this object."

DEFVAL { "00000000T000000/00000000T240000" }

```
 ::= { spdTimeFilterEntry 6 }
```

#### spdTimeFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this

object SHOULD have a zero value."

```
 ::= { spdTimeFilterEntry 7 }
```

#### spdTimeFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

```
DEFVAL { nonVolatile }
::= { spdTimeFilterEntry 8 }
```

#### spdTimeFiltRowStatus OBJECT-TYPE

```
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
```

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set it to anything other than active while it is referenced by an active row in another table MUST result in an inconsistentValue error."

```
::= { spdTimeFilterEntry 9 }
```

```
--
-- IPSO protection authority filtering
--
```

#### spdIpsHeaderFilterTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF SpdIpsHeaderFilterEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

"This table contains a list of IPSO header filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable. IPSO headers and their values are described in RFC 1108."

```
REFERENCE "RFC 1108"
```

```
::= { spdConfigObjects 10 }
```

#### spdIpsHeaderFilterEntry OBJECT-TYPE

```
SYNTAX SpdIpsHeaderFilterEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

"A definition of a particular filter."

```
INDEX { spdIpsHeaderFilterName }
```

```
::= { spdIpsHeaderFilterTable 1 }
```

SpdIpsHeaderFilterEntry ::= SEQUENCE

```
{  
  spdIpsHeaderFilterName      SnmpAdminString,  
  spdIpsHeaderFilterType      BITS,  
  spdIpsHeaderFilterClassification  INTEGER,  
  spdIpsHeaderFilterProtectionAuth  INTEGER,  
  spdIpsHeaderFilterLastChanged    TimeStamp,  
  spdIpsHeaderFilterStorageType    StorageType,  
  spdIpsHeaderFilterRowStatus      RowStatus  
}
```

spdIpsHeaderFilterName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

```
::= { spdIpsHeaderFilterEntry 1 }
```

spdIpsHeaderFilterType OBJECT-TYPE

SYNTAX BITS { classificationLevel(0),  
 protectionAuthority(1) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates which of the IPSO header field a packet is filtered on for this row. If this object is set to classification(0), the spdIpsHeaderFilterClassification

object indicates how the packet is filtered. If this object is set to protectionAuthority(1), the spdIpsHeaderFilterProtectionAuth object indicates how the packet is filtered."

```
::= { spdIpsHeaderFilterEntry 2 }
```

spdIpsHeaderFilterClassification OBJECT-TYPE

SYNTAX INTEGER { topSecret(61), secret(90),  
 confidential(150), unclassified(171) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO classification header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108."  
REFERENCE "RFC 1108"  
 ::= { spdIpsHeaderFilterEntry 3 }

spdIpsHeaderFilterProtectionAuth OBJECT-TYPE

SYNTAX INTEGER { genser(0), siopesi(1), sci(2),  
 nsa(3), doe(4) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO protection authority header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108. Hence the reason the SMIV2 convention of not using 0 in enumerated lists is violated here."

REFERENCE "RFC 1108"

::= { spdIpsHeaderFilterEntry 4 }

spdIpsHeaderFilterLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpsHeaderFilterEntry 5 }

spdIpsHeaderFilterStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpsHeaderFilterEntry 6 }

#### spdIpsHeaderFilterEntry OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

However, this object MUST NOT be set to active if the requirements of the spdIpsHeaderFilterType object are not met. Specifically, if the spdIpsHeaderFilterType bit for classification(0) is set, the spdIpsHeaderFilterClassification column MUST have a valid value for the row

status to be set

to active. If the spdIpsHeaderFilterType bit for protectionAuthority(1) is set, the spdIpsHeaderFilterProtectionAuth column MUST have a valid value for the row status to be set to active.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set it to anything other than active while it is referenced by an active row in another table MUST result in an inconsistentValue error."

::= { spdIpsHeaderFilterEntry 7 }

--

-- compound actions table

--

#### spdCompoundActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Table used to allow multiple actions to be associated with a rule. It uses the spdSubactionsTable to do this.

The rows from spdSubactionsTable that are partially indexed



by spdCompActName form the set of compound actions to be performed. The spdCompActExecutionStrategy column in this table indicates how those actions are processed."  
 ::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE

SYNTAX SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the spdCompoundActionTable."

INDEX { spdCompActName }

::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {

spdCompActName SnmpAdminString,

spdCompActExecutionStrategy INTEGER,

spdCompActLastChanged TimeStamp,

spdCompActStorageType StorageType,

spdCompActRowStatus RowStatus

}

spdCompActName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is an administratively assigned name of this compound action."

::= { spdCompoundActionEntry

1 }

spdCompActExecutionStrategy OBJECT-TYPE

SYNTAX INTEGER { doAll(1),

doUntilSuccess(2),

doUntilFailure(3) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates how the sub-actions are executed based on the success of the actions as they finish executing.

doAll - run each sub-action regardless of the exit status of the previous action.

This parent action is always considered to have acted successfully.

doUntilSuccess - run each sub-action until one succeeds, at which point stop processing the sub-actions within this parent compound action. If one of the sub-actions did execute successfully, this parent action is also considered to have executed successfully.

doUntilFailure - run each sub-action until one fails, at which point stop processing the sub-actions within this compound action. If any sub-action fails, the result of this parent action is considered to have failed."

```
DEFVAL { doUntilSuccess }  
::= { spdCompoundActionEntry 2 }
```

spdCompActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

```
::= { spdCompoundActionEntry  
3 }
```

spdCompActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

```
DEFVAL { nonVolatile }
```

::= { spdCompoundActionEntry 4 }

spdCompActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once a row in the spdCompoundActionTable has been made active, this object MUST NOT be set to destroy without first destroying all the contained rows listed in the spdSubactionsTable."

::= { spdCompoundActionEntry 5 }

--

-- actions contained within a compound action

--

spdSubactionsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of the sub-actions within a given compound action. Compound actions executing these actions MUST execute them in series based on the spdSubActPriority value, with the lowest value executing first."

::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE

SYNTAX SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row containing a reference to a given compound-action sub-action."

INDEX { spdCompActName, spdSubActPriority }

::= { spdSubactionsTable 1 }

```

SpdSubactionsEntry ::= SEQUENCE {
    spdSubActPriority          Integer32,
    spdSubActSubActionName
    VariablePointer,

    spdSubActLastChanged     TimeStamp,
    spdSubActStorageType     StorageType,
    spdSubActRowStatus       RowStatus
}

```

spdSubActPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given sub-action within a compound action. The order in which sub-actions MUST be executed are based on the value from this column, with the lowest numeric value executing first (i.e., priority 0 before priority 1, 1 before 2, etc.)."

::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

    spdCompoundActionTable

- Allowing recursion

    ipsaSaPreconfiguredActionTable

    ipiaIkeActionTable

    ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error

MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external

means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active unless one of the following two conditions are met. An attempt to set it to anything other than active while the following conditions are not met MUST result in an inconsistentValue error. The two conditions are:

- I. No active row in the spdCompoundActionTable exists which has a matching spdCompActName.
- II. Or, at least one other active row in this table has a matching spdCompActName."

```
::= { spdSubactionsEntry 5 }
```

```
--
```

```
-- Static Actions
```

```
--
```

```
-- these are static actions that can be pointed to by the  
-- spdRuleDefAction or the spdSubActSubActionName objects to  
-- drop, accept, or reject packets.
```

```
spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }
```

```
spdDropAction OBJECT-TYPE
```

```
SYNTAX Integer32 (1)
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This scalar indicates that a packet MUST be dropped  
and SHOULD
```

```
NOT have action/packet logging."
```

```
::= { spdStaticActions 1 }
```

```
spdDropActionLog OBJECT-TYPE
```

```
SYNTAX Integer32 (1)
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This scalar indicates that a packet MUST be dropped  
and SHOULD have action/packet logging."
```

```
::= { spdStaticActions 2 }
```

```
spdAcceptAction OBJECT-TYPE
```

SYNTAX Integer32 (1)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This Scalar indicates that a packet MUST be accepted  
(pass-through) and SHOULD NOT have action/packet logging."  
::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE  
SYNTAX Integer32 (1)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This scalar indicates that a packet MUST be accepted  
(pass-through) and SHOULD have action/packet logging."  
::= { spdStaticActions 4 }

--  
--  
-- Notification objects information  
--  
--

spdNotificationVariables OBJECT IDENTIFIER  
::=  
{ spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=   
{ spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE  
SYNTAX VariablePointer  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"Points to the action instance that was executed that  
resulted in the notification being sent."  
::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE  
SYNTAX InetAddressType  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"Contains the address type for the interface that the

notification triggering packet is passing through."  
::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the interface address for the interface that the notification triggering packet is passing through.

The format of  
this object is specified by the  
spdIPEndpointAddType object."  
::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address type of the packet that

triggered the notification."  
::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address of the packet that triggered the notification.

The format of this object is specified by the  
spdIPSourceType object."  
::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address type of the packet that triggered the notification."



::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address of the packet that triggered the notification.

The format of this object is specified by the spdIPDestinationType object."

::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Indicates if the packet that triggered the action in questions was ingress (inbound) or egress (outbound)."

::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..65535))

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"spdPacketPart is the front part of the full IP packet that triggered this notification. The initial size limit

is

determined by the smaller of the size, indicated by:

- I. The value of the object with the TC syntax 'SpdIPPacketLogging' that indicated the packet SHOULD be logged and
- II. The size of the triggering packet.

The final limit is determined by the SNMP packet size when sending the notification. The maximum size that can be included will be the smaller of the initial size, given the above, and the length that will fit in a single SNMP notification packet after the rest of the notification's objects and any other necessary packet data (headers encoding,

etc.) have been included in the packet."

::= { spdNotificationVariables 9 }

#### spdActionNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType,  
spdIPEndpointAddress,  
spdIPSourceType, spdIPSourceAddress,  
spdIPDestinationType,  
spdIPDestinationAddress,  
spdPacketDirection }

STATUS current

#### DESCRIPTION

"Notification that an action was executed by a rule.

Only actions with logging enabled will result in this notification getting sent. The object includes the spdActionExecuted object, which will indicate which action was executed within the scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects are included to indicate the packet source and destination of the packet that triggered the action. Finally, the spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects indicate which interface the executed action was associated with, and if the packet was ingress or egress through the endpoint.

A spdActionNotification SHOULD be limited to a maximum of one notification sent per minute

for any action

notifications that do not have any other configuration controlling their send rate.

Note that compound actions with multiple executed sub-actions may result in multiple notifications being sent from a single rule execution."

::= { spdNotifications 1 }

#### spdPacketNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType,  
spdIPEndpointAddress,  
spdIPSourceType, spdIPSourceAddress,  
spdIPDestinationType,  
spdIPDestinationAddress,  
spdPacketDirection,  
spdPacketPart }

STATUS current

DESCRIPTION

"Notification that a packet passed through a Security Association (SA). Only SAs created by actions with packet logging enabled will result in this notification getting sent. The objects sent MUST include the spdActionExecuted, which will indicate which action was executed

within the

scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects MUST be included to indicate the packet source and destination of the packet that triggered the action. The spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects are included to indicate which endpoint the packet was associated with. Finally, spdPacketPart is included to enable sending a variable sized part of the front of the packet with the size dependent on the value of the object of TC syntax 'SpdIPPacketLogging', which indicated that logging should be done.

A spdPacketNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate.

An action notification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate."

::= { spdNotifications 2 }

--

--

-- Conformance information

--

--

spdCompliances OBJECT IDENTIFIER

::= { spdConformanceObjects 1 }

spdGroups OBJECT IDENTIFIER

::= { spdConformanceObjects 2 }

--

-- Compliance statements

--

--

spdRuleFilterFullCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include an IPsec MIB implementation with Endpoint, Rules, and filters support.

When this MIB is implemented with support for read-create, then such an implementation can claim full compliance. Such devices can then be both monitored and configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,

spdGroupContentsGroup,

spdRuleDefinitionGroup,

spdStaticFilterGroup,

spdStaticActionGroup ,

diffServMIBMultiFieldClfrGroup }

GROUP spdIpsecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec

Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy

implementations that support time filters."

GROUP spdIpsHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdEndGroupLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdGroupContComponentType

SYNTAX INTEGER {

rule(2)

}

DESCRIPTION

"Support of the value group(1) is only required for implementations that support Policy Groups within Policy Groups."

OBJECT spdGroupContLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdRuleDefLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdCompFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdSubFiltLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdIpOffFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdTimeFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdIpsoHeadFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdCompActLastChanged  
MIN-ACCESS  
not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdSubActLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT diffServMultiFieldClfrNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object is not required for compliance."

::= { spdCompliances 1 }

spdLoggingCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that support  
sending notifications when actions are invoked."

MODULE -- This Module

MANDATORY-GROUPS { spdActionLoggingObjectGroup,  
spdActionNotificationGroup }

::= { spdCompliances 2 }

--

-- ReadOnly Compliances

--

spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include an IPsec MIB implementation with Endpoint, Rules, and filters support.

If this MIB is implemented without support for read-create (i.e., in read-only), it is not in full compliance, but it can claim read-only compliance. Such a device can then be monitored, but cannot be configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,  
 spdGroupContentsGroup,  
 spdRuleDefinitionGroup,  
 spdStaticFilterGroup,  
 spdStaticActionGroup ,  
 diffServMIBMultiFieldClfrGroup }

GROUP spdIpsecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy

implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy  
implementations that support compound actions."

OBJECT spdCompActExecutionStrategy

MIN-ACCESS read-only

DESCRIPTION

"Write access is not  
required."

OBJECT spdCompActLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdCompActRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompActStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompFiltDescription

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdCompFiltLogicType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompFiltRowStatus

MIN-ACCESS read-only



DESCRIPTION

"Write access is not required."

OBJECT spdCompFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEgressPolicyGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdEndGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContFilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdGroupContRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIngressPolicyGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpOffFiltOffset

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltValue  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpsoHeadFiltClassification  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpsoHeadFiltLastChanged  
DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpsoHeadFiltProtectionAuth  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpsoHeadFiltRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpsoHeadFiltStorageType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpsoHeadFiltType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdRuleDefAction  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdRuleDefAdminStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdRuleDefDescription

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefFilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefFilterNegated

MIN-ACCESS

read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdRuleDefRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdSubActRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActSubActionName

MIN-ACCESS read-only  
DESCRIPTION  
"Write access  
is not required."

OBJECT spdSubFiltLastChanged  
DESCRIPTION  
"This object is not required for compliance."

OBJECT spdSubFiltRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdSubFiltStorageType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdSubFiltSubfilter  
MIN-ACCESS read-only

DESCRIPTION  
"Write access is not required."

OBJECT spdSubFiltSubfilterIsNegated  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltDayOfMonthMask  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltDayOfWeekMask  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT  
spdTimeFiltLastChanged  
DESCRIPTION  
"This object is not required for compliance."

OBJECT spdTimeFiltMonthOfYearMask

MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltPeriod  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltTimeOfDayMask  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdTimeFiltStorageType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { spdCompliances 3 }

--

--

-- Compliance Groups Definitions

--

--

-- Endpoint, Rule, Filter Compliance Groups

--

spdEndpointGroup OBJECT-GROUP

OBJECTS {

spdEndGroupName,

spdEndGroupLastChanged,

spdEndGroupStorageType, spdEndGroupRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy  
Endpoint Table."

::= { spdGroups 1 }

spdGroupContentsGroup OBJECT-GROUP

```
OBJECTS {
    spdGroupContComponentType, spdGroupContFilter,
    spdGroupContComponentName, spdGroupContLastChanged,
    spdGroupContStorageType, spdGroupContRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Group Contents Table."
::= { spdGroups 2 }
```

spdIpssecSystemPolicyNameGroup OBJECT-GROUP

```
OBJECTS {
    spdIngressPolicyGroupName,
    spdEgressPolicyGroupName
}
STATUS current
DESCRIPTION
    "This group is made up of objects represent the System
    Policy Group Names."
::= { spdGroups 3 }
```

spdRuleDefinitionGroup OBJECT-GROUP

```
OBJECTS {
    spdRuleDefDescription, spdRuleDefFilter,
    spdRuleDefFilterNegated, spdRuleDefAction,
    spdRuleDefAdminStatus, spdRuleDefLastChanged,

    spdRuleDefStorageType, spdRuleDefRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy Rule
    Definition Table."
::= { spdGroups 4 }
```

spdCompoundFilterGroup OBJECT-GROUP

```
OBJECTS {
    spdCompFiltDescription, spdCompFiltLogicType,
    spdCompFiltLastChanged, spdCompFiltStorageType,
    spdCompFiltRowStatus, spdSubFiltSubfilter,
    spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,
    spdSubFiltStorageType, spdSubFiltRowStatus
}
```

STATUS current  
DESCRIPTION  
"This group is made up of objects from the IPsec Policy  
Compound Filter Table and Sub-Filter Table Group."  
::= { spdGroups 5 }

spdStaticFilterGroup OBJECT-GROUP  
OBJECTS { spdTrueFilter }  
STATUS current  
DESCRIPTION  
"The static filter group. Currently this is just  
a true  
filter."  
::= { spdGroups 6 }

spdIPOffsetFilterGroup OBJECT-GROUP  
OBJECTS {  
spdIpOffFiltOffset, spdIpOffFiltType,  
spdIpOffFiltValue, spdIpOffFiltLastChanged,  
spdIpOffFiltStorageType, spdIpOffFiltRowStatus  
}

STATUS current  
DESCRIPTION  
"This group is made up of objects from the IPsec Policy IP  
Offset Filter Table."  
::= { spdGroups 7 }

spdTimeFilterGroup OBJECT-GROUP  
OBJECTS {  
spdTimeFiltPeriod,  
spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,  
spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,  
  
spdTimeFiltLastChanged,  
spdTimeFiltStorageType, spdTimeFiltRowStatus  
}  
STATUS current  
DESCRIPTION  
"This group is made up of objects from the IPsec Policy Time  
Filter Table."  
::= { spdGroups 8 }

spdIpsHeaderFilterGroup OBJECT-GROUP  
OBJECTS {  
spdIpsHeaderFiltType, spdIpsHeaderFiltClassification,



```
    spdIpsoHeadFiltProtectionAuth,
spdIpsoHeadFiltLastChanged,
    spdIpsoHeadFiltStorageType, spdIpsoHeadFiltRowStatus
}
STATUS current
DESCRIPTION
    "This group is made up of objects from the IPsec Policy IPSO
    Header Filter Table."
::= { spdGroups 9 }
```

--

-- action compliance groups

--

```
spdStaticActionGroup OBJECT-GROUP
```

```
OBJECTS {
    spdDropAction, spdAcceptAction,
    spdDropActionLog, spdAcceptActionLog
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "This group is made up of objects from the IPsec Policy
    Static Actions."
```

```
::= { spdGroups 10 }
```

```
spdCompoundActionGroup OBJECT-GROUP
```

```
OBJECTS {
    spdCompActExecutionStrategy, spdCompActLastChanged,
    spdCompActStorageType,

    spdCompActRowStatus, spdSubActSubActionName,
    spdSubActLastChanged, spdSubActStorageType,
    spdSubActRowStatus
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "The IPsec Policy Compound Action Table and Actions In
```

```
    Compound Action Table
Group."
```

```
::= { spdGroups 11 }
```

```
spdActionLoggingObjectGroup OBJECT-GROUP
```

```
OBJECTS {
    spdActionExecuted,
    spdIPEndpointAddType, spdIPEndpointAddress,
```

```
    spdIPSourceType,    spdIPSourceAddress,
    spdIPDestinationType, spdIPDestinationAddress,
    spdPacketDirection, spdPacketPart
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notification objects for
    this MIB."
::= { spdGroups 12 }
```

```
spdActionNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    spdActionNotification,
    spdPacketNotification
}
STATUS current
DESCRIPTION
    "This group is made up of all the Notifications for this MIB."
::= { spdGroups 13 }
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-MIB

No license file was found, but licenses were detected in source scan.

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY, mib-2    FROM SNMPv2-SMI
TEXTUAL-CONVENTION      FROM SNMPv2-TC;
```

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

```
"Postal:  Internet Assigned Numbers Authority
          Internet Corporation for Assigned Names
          and Numbers
          4676 Admiralty Way, Suite 330
          Marina del Rey, CA 90292-6601
          USA
```

Tel: +1 310-823-9358

E-Mail: iana&iana.org"

DESCRIPTION

"The MIB module defines the ITU Alarm textual convention for objects expected to require regular extension.

Copyright (C) The Internet Society (2004). The initial version of this MIB module was published in RFC 3877. For full legal notices see the RFC itself. Supplementary information may be available on: <http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z"  
DESCRIPTION  
"Initial version, published as RFC 3877."  
::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in X.733 are appended with X733 to ensure syntactic uniqueness. Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are reserved

for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more

experts to help review requests.

See <http://www.iana.org>"

#### REFERENCE

"ITU Recommendation M.3100,  
'Generic Network Information  
Model', 1995  
ITU Recommendation X.733, 'Information Technology - Open  
Systems Interconnection - System Management: Alarm  
Reporting Function', 1992  
ITU Recommendation X.736, 'Information Technology - Open  
Systems Interconnection - System Management: Security  
Alarm Reporting Function', 1992"

#### SYNTAX      INTEGER

```
{  
-- The following probable causes were defined in M.3100  
aIS (1),  
callSetUpFailure (2),  
degradedSignal (3),  
farEndReceiverFailure (4),  
framingError (5),  
lossOfFrame (6),  
lossOfPointer (7),  
lossOfSignal (8),  
payloadTypeMismatch (9),  
transmissionError (10),  
remoteAlarmInterface (11),  
excessiveBER (12),  
  
pathTraceMismatch (13),  
unavailable (14),  
signalLabelMismatch (15),  
lossOfMultiFrame (16),  
receiveFailure (17),  
transmitFailure (18),  
modulationFailure (19),  
demodulationFailure (20),  
broadcastChannelFailure (21),  
connectionEstablishmentError (22),  
invalidMessageReceived (23),  
localNodeTransmissionError (24),  
remoteNodeTransmissionError (25),  
routingFailure (26),  
--Values 27-50 are reserved for communications alarm related  
--probable causes  
-- The following are used with equipment alarm.  
backplaneFailure (51),
```

dataSetProblem (52),  
 equipmentIdentifierDuplication (53),  
 externalIFDeviceProblem (54),  
 lineCardProblem (55),  
 multiplexerProblem (56),  
 nEIdentifierDuplication  
 (57),  
 powerProblem (58),  
 processorProblem (59),  
 protectionPathFailure (60),  
 receiverFailure (61),  
 replaceableUnitMissing (62),  
 replaceableUnitTypeMismatch (63),  
 synchronizationSourceMismatch (64),  
 terminalProblem (65),  
 timingProblem (66),  
 transmitterFailure (67),  
 trunkCardProblem (68),  
 replaceableUnitProblem (69),  
 realTimeClockFailure (70),  
 --An equipment alarm to be issued if the system detects that the  
 --real time clock has failed  
 antennaFailure (71),  
 batteryChargingFailure (72),  
 diskFailure (73),  
 frequencyHoppingFailure (74),  
 iODeviceError (75),  
 lossOfSynchronisation (76),  
 lossOfRedundancy (77),  
 powerSupplyFailure (78),  
 signalQualityEvaluationFailure (79),  
 tranceiverFailure (80),  
 protectionMechanismFailure (81),  
 protectingResourceFailure (82),  
 -- Values 83-100 are reserved for equipment alarm related probable  
 -- causes  
 -- The following are used with environmental alarm.  
 airCompressorFailure (101),  
 airConditioningFailure (102),  
 airDryerFailure (103),  
 batteryDischarging (104),  
 batteryFailure (105),  
 commercialPowerFailure (106),  
 coolingFanFailure (107),  
 engineFailure (108),  
 fireDetectorFailure (109),  
 fuseFailure (110),  
 generatorFailure (111),

lowBatteryThreshold (112),  
 pumpFailure (113),  
 rectifierFailure (114),  
 rectifierHighVoltage (115),  
 rectifierLowFVvoltage  
 (116),  
 ventilationsSystemFailure (117),  
 enclosureDoorOpen (118),  
 explosiveGas (119),  
 fire (120),  
 flood (121),  
 highHumidity (122),  
 highTemperature (123),  
 highWind (124),  
 iceBuildUp (125),  
 intrusionDetection (126),  
 lowFuel (127),  
 lowHumidity (128),  
 lowCablePressure (129),  
 lowTemperature (130),  
 lowWater (131),  
 smoke (132),  
 toxicGas (133),  
 coolingSystemFailure (134),  
 externalEquipmentFailure (135),  
 externalPointFailure (136),  
 -- Values 137-150 are reserved for environmental alarm related  
 -- probable causes  
 -- The following are used with Processing error alarm.  
 storageCapacityProblem (151),  
 memoryMismatch (152),  
  
 corruptData (153),  
 outOfCPUCycles (154),  
 sfwrEnvironmentProblem (155),  
 sfwrDownloadFailure (156),  
 lossOfRealTime (157),  
 --A processing error alarm to be issued after the system has  
 --reinitialised. This will indicate  
 --to the management systems that the view they have of the managed  
 --system may no longer  
 --be valid. Usage example: The managed  
 --system issues this alarm after a reinitialization with severity  
 --warning to inform the  
 --management system about the event. No clearing notification will  
 --be sent.  
 applicationSubsystemFailure (158),  
 configurationOrCustomisationError (159),

databaseInconsistency (160),  
fileError (161),  
outOfMemory (162),  
softwareError (163),  
timeoutExpired (164),  
underlyingResourceUnavailable (165),  
versionMismatch  
(166),  
--Values 168-200 are reserved for processing error alarm related  
-- probable causes.  
bandwidthReduced (201),  
congestion (202),  
excessiveErrorRate (203),  
excessiveResponseTime (204),  
excessiveRetransmissionRate (205),  
reducedLoggingCapability (206),  
systemResourcesOverload (207 ),  
-- The following were defined X.733  
adapterError (500),  
applicationSubsystemFailure (501),  
bandwidthReducedX733 (502),  
callEstablishmentError (503),  
communicationsProtocolError (504),  
communicationsSubsystemFailure (505),  
configurationOrCustomizationError (506),  
congestionX733 (507),  
corruptData (508),  
cpuCyclesLimitExceeded (509),  
dataSetOrModemError (510),  
degradedSignalX733  
(511),  
dteDceInterfaceError (512),  
enclosureDoorOpenX733 (513),  
equipmentMalfunction (514),  
excessiveVibration (515),  
fileErrorX733 (516),  
fireDetected (517),  
framingErrorX733 (518),  
heatingVentCoolingSystemProblem (519),  
humidityUnacceptable (520),  
inputOutputDeviceError (521),  
inputDeviceError (522),  
lanError (523),  
leakDetected (524),  
localNodeTransmissionErrorX733 (525),  
lossOfFrameX733 (526),  
lossOfSignalX733 (527),  
materialSupplyExhausted (528),

multiplexerProblemX733 (529),  
outOfMemoryX733 (530),  
outputDeviceError (531),  
performanceDegraded (532),  
powerProblems (533),  
pressureUnacceptable (534),

processorProblems (535),  
pumpFailureX733 (536),  
queueSizeExceeded (537),  
receiveFailureX733 (538),  
receiverFailureX733 (539),  
remoteNodeTransmissionErrorX733 (540),  
resourceAtOrNearingCapacity (541),  
responseTimeExcessive (542),  
retransmissionRateExcessive (543),  
softwareErrorX733 (544),  
softwareProgramAbnormallyTerminated (545),  
softwareProgramError (546),  
storageCapacityProblemX733 (547),  
temperatureUnacceptable (548),  
thresholdCrossed (549),  
timingProblemX733 (550),  
toxicLeakDetected (551),  
transmitFailureX733 (552),  
transmitterFailure (553),  
underlyingResourceUnavailable (554),  
versionMismatchX733 (555),  
-- The following are defined in X.736

authenticationFailure (600),  
breachOfConfidentiality (601),  
cableTamper (602),  
delayedInformation (603),  
denialOfService (604),  
duplicateInformation (605),  
informationMissing (606),  
informationModificationDetected (607),  
informationOutOfSequence (608),  
keyExpired (609),  
nonRepudiationFailure (610),  
outOfHoursActivity (611),  
outOfService (612),  
proceduralError (613),  
unauthorizedAccessAttempt (614),  
unexpectedInformation (615),

other (1024)



}

IANAItuEventType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The ITU event Type values.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations

in this TC.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

See <http://www.iana.org> "

REFERENCE

"ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{
  other (1),
  communicationsAlarm (2),
  qualityOfServiceAlarm (3),
  processingErrorAlarm (4),
  equipmentAlarm (5),
  environmentalAlarm (6),
  integrityViolation (7),
  operationalViolation (8),
  physicalViolation (9),
  securityServiceOrMechanismViolation (10),
  timeDomainViolation (11)
}
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB

No license file was found, but licenses were detected in source scan.

Modem-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,

Counter32, Integer32 FROM SNMPv2-SMI  
DisplayString FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF  
mib-2 FROM RFC1213-MIB;

mdmMIB MODULE-IDENTITY

LAST-UPDATED "9406120000Z"

ORGANIZATION "IETF Modem Management Working Group"

CONTACT-INFO

" Steven Waldbusser

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5000 Forbes Ave

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US

Tel: +1 412 268 6628

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E-mail: waldbusser@cmu.edu"

DESCRIPTION

"The MIB module for management of dial-up modems."

::= { mdmMib 1 }

mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }

mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }

-- conformance information

mdmConformance OBJECT IDENTIFIER

::= { mdmMIB 2 }

mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }

mdmGroups OBJECT IDENTIFIER ::= { mdmConformance 2 }

-- units of conformance

mdmIDGroup OBJECT-GROUP

OBJECTS { mdmIDManufacturerOID, mdmIDProductDetails }

STATUS current

DESCRIPTION

"A collection of objects that identify the manufacturer and  
model information for a modem."

::= { mdmGroups 1 }

mdmLineInterfaceGroup OBJECT-GROUP

OBJECTS { mdmLineCarrierLossTime,

mdmLineState, mdmLineCapabilitiesID,  
mdmLineCapabilitiesEnableRequested,  
mdmLineCapabilitiesEnableGranted }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and  
state of the modem's line interface."

::= { mdmGroups 2 }

mdmDTEInterfaceGroup OBJECT-GROUP

OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,  
mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

mdmDTEInactivityTimeout }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and  
state of the modem's DTE interface."

::= { mdmGroups 3 }

mdmCallControlGroup OBJECT-GROUP

OBJECTS { mdmCCRingsBeforeAnswer,  
mdmCCCSetupFailTimer, mdmCCResultCodeEnable,  
mdmCCEscapeAction, mdmCCCduration,  
mdmCCConnectionFailReason, mdmCCStoredDialString }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration of  
call control capabilities on the modem and the status of  
calls placed with this modem."

::= { mdmGroups 4 }

mdmErrorControlGroup OBJECT-GROUP

OBJECTS { mdmECEErrorControlUsed }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and  
state of error control on a modem."

::= { mdmGroups 5 }

mdmDataCompressionGroup OBJECT-GROUP

OBJECTS

{ mdmDCCompressionTypeUsed }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and  
state of data compression on a modem."

::= { mdmGroups 6 }

mdmSignalConvertorGroup OBJECT-GROUP  
OBJECTS { mdmSCCurrentLineReceiveRate, mdmSCCurrentLineTransmitRate,  
mdmSCInitialLineReceiveRate, mdmSCInitialLineTransmitRate,  
mdmSCModulationSchemeUsed }  
STATUS current  
DESCRIPTION  
"A collection of objects that describe the configuration and  
state of error control on a modem."  
::= { mdmGroups 7 }

mdmStatisticsGroup OBJECT-GROUP  
OBJECTS { mdmStatsRingNoAnswers,  
mdmStatsIncomingConnectionFailures,  
mdmStatsIncomingConnectionCompletions,  
mdmStatsFailedDialAttempts,  
mdmStatsOutgoingConnectionFailures,  
mdmStatsOutgoingConnectionCompletions,  
mdmStatsRetrains,  
mdmStats2400OrLessConnections, mdmStats2400To14400Connections,  
mdmStatsGreaterThan14400Connections,  
mdmStatsErrorControlledConnections,  
mdmStatsCompressedConnections,  
mdmStatsCompressionEfficiency,  
mdmStatsSentOctets, mdmStatsReceivedOctets,  
mdmStatsSentDataFrames, mdmStatsReceivedDataFrames,  
mdmStatsResentFrames, mdmStatsErrorFrames }  
STATUS current  
DESCRIPTION  
"A collection of objects that describe the state of calls on  
this modem."  
::= { mdmGroups 8 }

mdmNumber OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of modem rows in the modem table. This value  
defines the maximum value of the mdmIndex object."  
::= { mdmMIBObjects 1 }

-- The modem ID table.

mdmIDTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MdmIDEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

"The base table for the modems managed by this MIB. The  
mdmLineTable,  
mdmDTEInterfaceTable, mdmCallControlTable, and  
mdmStatsTable all augment the rows defined in this table."  
::= { mdmMIBObjects 2 }

mdmIDEntry OBJECT-TYPE

SYNTAX MdmIDEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"Entries in this table are created only by the agent. One  
entry exists for each modem managed by the agent."

INDEX { mdmIndex }  
::= { mdmIDTable 1 }

MdmIDEntry ::= SEQUENCE {

mdmIndex Integer32,  
mdmIDManufacturerOID OBJECT IDENTIFIER,  
mdmIDProductDetails DisplayString  
}

mdmIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"A unique number for each modem that ranges from 1 to  
mdmNumber. The value must remain constant at least from one  
re-initialization of the network management agent to the  
next."

::= { mdmIDEntry 1  
}

mdmIDManufacturerOID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This value is intended to identify the manufacturer, model,  
and version of this modem. This may be used to identify the  
existence of enterprise-specific functions and behaviours."

REFERENCE

"V.58 attribute manufacturerID subfield ManufacturerOI"  
::= { mdmIDEntry 2 }

mdmIDProductDetails OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..79))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of this device, including the manufacturer's name, modem model name, hardware revision, firmware revision, and optionally, its serial number. The exact format of this description is defined by the vendor. This description may only contain characters from the NVT ASCII character set."

REFERENCE

"V.58 attribute manufacturerID subfield productDetails"

::= { mdmIDEntry 3 }

-- The modem Line Interface Table

mdmLineTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmLineEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem Line Table augments the modem ID table."

::= { mdmMIBObjects 3 }

mdmLineEntry OBJECT-TYPE

SYNTAX MdmLineEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmLineTable 1 }

MdmLineEntry ::= SEQUENCE {

mdmLineCarrierLossTime Integer32,

mdmLineState INTEGER

}

mdmLineCarrierLossTime OBJECT-TYPE

SYNTAX Integer32 (1..255)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Duration in 10ths of a second the modem waits after loss of

carrier before hanging up. If this value is set to `255', the modem will not hang up upon loss of carrier. This

allows the modem to distinguish between a momentary lapse in line quality and a true disconnect and can be useful to tune the tolerance of the modem to lines of poor quality."

REFERENCE "V.58 lineSignalFailDisconnectTimer"

::= { mdmLineEntry 1 }

mdmLineState OBJECT-TYPE

SYNTAX INTEGER {  
    unknown(1),  
    onHook(2),  
    offHook(3), -- and not connected  
    connected(4),  
    busiedOut(5),  
    reset(6)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows the inspection and alteration of the state of the modem. Management commands may change the state to `on-hook`, `busied-out`, or `reset` from any state. No other

alterations are permitted from the management protocol.

When this object is set to reset, the modem shall be reset and the value will change to the modem's new, implementation dependent state."

::= { mdmLineEntry 2 }

mdmLineCapabilitiesTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmLineCapabilitiesEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of protocol capabilities for this modem."

::= { mdmMIBObjects 4 }

mdmLineCapabilitiesEntry OBJECT-TYPE

SYNTAX MdmLineCapabilitiesEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A listing of the protocol(s) that this modem is capable of.

Entries in this table are created only by the agent. One entry exists for each protocol that the modem is capable of, regardless of whether that protocol is enabled or not.

This table is useful for providing an

inventory of the capabilities on a modem, and allowing the manager to enable or disable capabilities from the menu of available possibilities. Row creation is not required to enable or disable capabilities."

```
INDEX { mdmIndex, mdmLineCapabilitiesIndex }  
::= { mdmLineCapabilitiesTable 1 }
```

```
MdmLineCapabilitiesEntry ::= SEQUENCE {  
    mdmLineCapabilitiesIndex Integer32,  
    mdmLineCapabilitiesID OBJECT IDENTIFIER,  
    mdmLineCapabilitiesEnableRequested INTEGER,  
    mdmLineCapabilitiesEnableGranted INTEGER  
}
```

mdmLineCapabilitiesIndex OBJECT-TYPE

```
SYNTAX Integer32  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "A unique index for this capabilities entry."  
::= { mdmLineCapabilitiesEntry 1 }
```

mdmLineCapabilitiesID OBJECT-TYPE

```
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "An identifier for  
this capability. Standard protocol  
capabilities will have identifiers registered in this  
document or other companion standards documents.  
Proprietary protocol capabilities will be registered by  
their respective organization. All capabilities, standard  
or vendor-specific, shall be registered in this table."  
::= { mdmLineCapabilitiesEntry 2 }
```

mdmLineCapabilitiesEnableRequested OBJECT-TYPE

```
SYNTAX INTEGER {  
    disabled(1),  
    optional(2),  
    preferred(3)  
}  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
    "The requested configuration of this capability. If this  
value is 'disabled(1)', this is a request to disable this
```



protocol. If this value is 'preferred(3)', this is a request to enable this protocol, and to prefer it in any negotiation over other appropriate protocols that have a value of 'optional(2)'.  
DEFVAL { preferred }  
::= { mdmLineCapabilitiesEntry 3 }

mdmLineCapabilitiesEnableGranted OBJECT-TYPE

SYNTAX INTEGER {  
disabled(1),  
optional(2),  
preferred(3)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The actual configuration of this capability. The agent shall attempt to set this as close as possible to the associated mdmLineCapabilitiesEnableRequested value. The agent shall make this determination in an implementation-specific manner that may take into account the configuration of other capabilities or other considerations. The modem will choose in an implementation-specific manner between multiple mutually-exclusive capabilities that each have the same (non-disabled) value. However, the modem must prefer all capabilities with a value of 'preferred(3)' over all capabilities with a value of 'optional(2)'.

In other words, if there are one or more mutually-exclusive capabilities (e.g. V.32 and V.32bis) that are set to 'preferred', the agent must choose one in an implementation-specific manner. Otherwise, if there are one or more mutually-exclusive capabilities that are set to 'optional', the agent must choose one in an implementation-specific manner."

::= { mdmLineCapabilitiesEntry 4 }

mdmLineCapabilities OBJECT IDENTIFIER ::= { mdmMIBObjects 5 }

mdmLineCapabilitiesV21 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.21"

::= { mdmLineCapabilities 1 }

mdmLineCapabilitiesV22 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.22"

::= { mdmLineCapabilities 2 }

mdmLineCapabilitiesV22bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.22bis"

::= { mdmLineCapabilities 3 }

mdmLineCapabilitiesV23CC OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.23CC"

::= { mdmLineCapabilities 4 }

mdmLineCapabilitiesV23SC OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.23SC"

::= { mdmLineCapabilities 5 }

mdmLineCapabilitiesV25bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.25bis"

::= { mdmLineCapabilities 6 }

mdmLineCapabilitiesV26bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.26bis"

::= { mdmLineCapabilities 7 }

mdmLineCapabilitiesV26ter OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.26ter"

::= { mdmLineCapabilities 8 }

mdmLineCapabilitiesV27ter OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.27ter"

::= { mdmLineCapabilities 9 }

mdmLineCapabilitiesV32 OBJECT-IDENTITY

STATUS current

DESCRIPTION  
"ITU V.32"  
::= { mdmLineCapabilities 10 }

mdmLineCapabilitiesV32bis OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.32bis"  
::= { mdmLineCapabilities 11 }

mdmLineCapabilitiesV32terbo OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.32terbo"  
::= { mdmLineCapabilities 12 }

mdmLineCapabilitiesVFC OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.FC"  
::= { mdmLineCapabilities 13 }

mdmLineCapabilitiesV34 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.34"  
::= { mdmLineCapabilities 14 }

mdmLineCapabilitiesV42 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.42"  
::= { mdmLineCapabilities 15 }

mdmLineCapabilitiesV42bis OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.42bis"  
::= { mdmLineCapabilities 16 }

mdmLineCapabilitiesMNP1 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"MNP1"  
::= { mdmLineCapabilities 17 }

mdmLineCapabilitiesMNP2

OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP2"

::= { mdmLineCapabilities 18 }

mdmLineCapabilitiesMNP3 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP3"

::= { mdmLineCapabilities 19 }

mdmLineCapabilitiesMNP4 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP4"

::= { mdmLineCapabilities 20 }

mdmLineCapabilitiesMNP5 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP5"

::= { mdmLineCapabilities 21 }

mdmLineCapabilitiesMNP6 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP6"

::= { mdmLineCapabilities 22 }

mdmLineCapabilitiesMNP7 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP7"

::= { mdmLineCapabilities 23 }

mdmLineCapabilitiesMNP8 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP8"

::= { mdmLineCapabilities 24 }

mdmLineCapabilitiesMNP9 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP9"

::= { mdmLineCapabilities 25 }

mdmLineCapabilitiesMNP10 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP10"

::= { mdmLineCapabilities 26 }

mdmLineCapabilitiesV29 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.29"

::= { mdmLineCapabilities 27 }

mdmLineCapabilitiesV33 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.33"

::= { mdmLineCapabilities 28 }

mdmLineCapabilitiesBell208 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Bell 208"

::= { mdmLineCapabilities 29 }

-- DTE Interface Table

mdmDTEInterfaceTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmDTEInterfaceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem DTE Interface Table augments the modem ID table."

::= { mdmMIBObjects 6 }

mdmDTEInterfaceEntry OBJECT-TYPE

SYNTAX MdmDTEInterfaceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmDTEInterfaceTable 1 }

MdmDTEInterfaceEntry ::= SEQUENCE {

mdmDTEActionDTROnToOff INTEGER,

```
mdmDTEActionDTROffToOn    INTEGER,
mdmDTESyncTimingSource    INTEGER,
mdmDTESyncAsyncMode      INTEGER,
mdmDTEInactivityTimeout   Integer32
}
```

mdmDTEActionDTROnToOff OBJECT-TYPE

```
SYNTAX    INTEGER {
    ignore(1),
    escapeToCommandMode(2),
    disconnectCall(3),
    resetModem(4)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action the modem will take when DTR drops.

If the value is set to ignore(1), the modem takes no action when DTR drops. Typically, mdmDTEActionDTROffToOn would also be set to ignore(1) if this object is set to ignore(1).

If the value is escapeToCommandMode(2), the modem remains connected and enters command mode. If the value is disconnectCall(3), the current call (if any) is terminated and the modem will not auto-answer while DTR is off. If the value is resetModem(4), the current call (if any) is terminated and the modem is reset."

DEFVAL { disconnectCall }

::= { mdmDTEInterfaceEntry 1 }

mdmDTEActionDTROffToOn OBJECT-TYPE

```
SYNTAX    INTEGER {
    ignore(1),
    enableDial(2),
    autoAnswerEnable(3),
    establishConnection(4)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action the modem will take when DTR is raised.

If the value is set to ignore(1), the modem takes no action when DTR is raised. Typically, mdmDTEActionDTROnToOff would also be set to ignore(1) if this object is set to ignore(1).

If the value is set to enableDial(2), the modem prepares to dial an outgoing call. If the value is set to autoAnswerEnable(3), the modem will be configured to answer any incoming call. If the value is set to establishConnection(4), the modem dials an implementation specific number.

Immediately after any reset or power-on of the modem, if the DTR is high, the action specified here will be executed."

```
DEFVAL { autoAnswerEnable }  
::= { mdmDTEInterfaceEntry 2 }
```

mdmDTESyncTimingSource OBJECT-TYPE

```
SYNTAX INTEGER {  
    internal(1),  
    external(2),  
    loopback(3),  
    network(4)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The clock source for synchronous transmissions. If set to internal(1), the modem is the clock source and sends the clock signals to the DTE. If set to external(2), the transmit clock signals are provided by the DTE. If loopback(3), the modem receiver clock is used for the transmit clock. If network(4), the clock signals are supplied by the DCE interface.

If the modem is not in synchronous mode, setting this object will have no effect on the current operations of the modem."

REFERENCE "V.58 transmitClockSource"

```
DEFVAL { internal }  
::= { mdmDTEInterfaceEntry 3 }
```

mdmDTESyncAsyncMode OBJECT-TYPE

```
SYNTAX INTEGER {  
    async(1),  
    sync(2),  
    syncAfterDial(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The operational mode of the modem. If the value is syncAfterDial(3), the modem will accept commands in

asynchronous mode and change to synchronous mode to pass data after a dial sequence has been executed."

DEFVAL { async }

::= { mdmDTEInterfaceEntry 4 }

mdmDTEInactivityTimeout OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The amount of idle time in minutes that the modem will wait before disconnecting a connection. When a call is connected and no data is transferred (continuous marking condition) on both circuits 103 and 104 for the specified time, the DCE disconnects the call. If the value is 0, no idle disconnect will occur. This function applies to asynchronous dial operations only and is intended for administrative control over idle connections."

REFERENCE "V.58 inactivityTimerSelect"

DEFVAL { 0 }

::= { mdmDTEInterfaceEntry 5 }

-- The Call Control Table

mdmCallControlTable

OBJECT-TYPE

SYNTAX SEQUENCE OF MdmCallControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem Call Control Table augments the modem ID table."

::= { mdmMIBObjects 7 }

mdmCallControlEntry OBJECT-TYPE

SYNTAX MdmCallControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmCallControlTable 1 }

MdmCallControlEntry ::= SEQUENCE {

mdmCCRingsBeforeAnswer Integer32,

mdmCCCallSetUpFailTimer Integer32,

mdmCCResultCodeEnable INTEGER,



```
mdmCCEscapeAction    INTEGER,  
mdmCCCCallDuration   Integer32,  
mdmCCConnectionFailReason  INTEGER  
}
```

mdmCCRingsBeforeAnswer OBJECT-TYPE

```
SYNTAX   Integer32  
MAX-ACCESS  read-write  
STATUS    current  
DESCRIPTION
```

"Determines which ring the modem will wait to answer the phone on. If this value is `0', the modem will not go offhook and answer a call when a ring signal is detected."

REFERENCE "V.58 ringsBeforeAnswer"

DEFVAL { 1 }

::= { mdmCallControlEntry 1 }

mdmCCCCallSetUpFailTimer OBJECT-TYPE

```
SYNTAX   Integer32 (0..255)  
MAX-ACCESS  read-write  
STATUS    current  
DESCRIPTION
```

"This parameter specifies the amount of time, in seconds, that the modem shall allow between either answering a call (automatically or manually) or completion of dialing, and establishment of a connection with the remote modem. If no connection is established during this time, the modem disconnects from the line and returns a result code indicating the cause of the disconnection. In TIA-602, this is controlled by the value in the S7 register."

REFERENCE "V.58

callSetUpFailTimer"

DEFVAL { 30 }

::= { mdmCallControlEntry 2 }

mdmCCResultCodeEnable OBJECT-TYPE

```
SYNTAX   INTEGER {  
    disabled(1),  
    numericEnabled(2),  
    verboseEnabled(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"When disabled, the DCE shall issue no 'result codes' of any kind to the DTE either in response to unsolicited events (eg. ring signal), or commands. In TIA-602, this is

controlled by the ATQ command. When numericEnabled, the DCE shall issue result codes in numeric form. When verboseEnabled, the DCE shall issue result codes in a verbose, textual form."

REFERENCE "V.58 responseModeSelect"

DEFVAL { verboseEnabled }

::= { mdmCallControlEntry 3 }

mdmCCEscapeAction OBJECT-TYPE

SYNTAX INTEGER {

ignoreEscape(1),

hangUp(2),

enterCommandMode(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The modem's action upon successfully recognizing the 'escape to command mode' character sequence."

DEFVAL { ignoreEscape }

::= { mdmCallControlEntry 4 }

-- Call status portion of the call control table

mdmCCCallDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Present or last completed connection time in seconds. If there have been no previous connections, this value should be -1."

::= { mdmCallControlEntry 5 }

mdmCCConnectionFailReason OBJECT-TYPE

SYNTAX INTEGER {

-- General

unknown(1),

other(2),

managementCommand(3),

inactivityTimeout(4),

mnpIncompatibility(5),

protocolError(6),

-- DCE

powerLoss(10),

```
        equipmentFailure(11),
-- DTE Interface
        dtrDrop(20),
-- Line Interface
        noDialTone(30),
        lineBusy(31),
        noAnswer(32),
        voiceDetected(33),
-- Signal Converter
        carrierLost(40),
        trainingFailed(41),
        faxDetected(42)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"Indicates the reason that the last connection or attempt failed. The meaning of each reason code is explained below.

unknown:

This code means the failure reason is unknown or there has been no previous call.

other:

This code used when no other code is applicable. Additional vendor information may be available elsewhere.

managementCommand:

A management command terminated the call. These commands include escaping to command mode, initiating dialing, restoring lines, and disconnecting.

inactivityTimeout:

The call was terminated because it was inactive for at the minimum duration specified.

mnpIncompatibility:

The modems are unable to resolve MNP protocol differences.

protocolError:

An error occurred in one of protocol in use. Further information is required to determine in which protocol the error occurred, and the exact nature of the error.

powerLoss:

The modem lost power and disconnected the call.

equipmentFailure:

The modem equipment failed.

dtrDrop:

DTR has been turned off while the modem is to disconnect on DTR drop. (Ref: V.58 cct108TurnedOff)

noDialTone:

If the modem is to monitor for call progress tones, but the modem has failed to detect dial tone while attempting to dial a number.

lineBusy:

Busy signal is detected while busy signal detection is enabled, or while the 'W' or '@' dial modifier is used. (Ref: V.58 engagedTone)

noAnswer:

The call was not answered.

voiceDetected:

A voice was detected on the call.

carrierLost:

Indicates that the modem has disconnected due to detection of loss of carrier. In TIA-602, the S10 register determines the time that loss of carrier must be detected before the modem disconnects.

trainingFailed:

Indicates that the modems did not successfully train and reach data mode on the previous connection.

faxDetected:

A fax was detected on the call."

REFERENCE "V.58 callCleared"

::= { mdmCallControlEntry 6 }

-- The Stored Dial String table

mdmCCStoredDialStringTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmCCStoredDialStringEntry

MAX-ACCESS not-accessible

STATUS current  
DESCRIPTION  
"The table of stored dial strings."  
REFERENCE "V.58 telephoneNumbers"  
::= { mdmMIBObjects 8 }

mdmCCStoredDialStringEntry OBJECT-TYPE  
SYNTAX MdmCCStoredDialStringEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"A stored dial string."  
INDEX { mdmIndex, mdmCCStoredDialStringIndex }  
::= { mdmCCStoredDialStringTable 1 }

MdmCCStoredDialStringEntry ::= SEQUENCE {  
mdmCCStoredDialStringIndex Integer32,  
mdmCCStoredDialString DisplayString  
}

mdmCCStoredDialStringIndex OBJECT-TYPE  
SYNTAX Integer32 (0..65535)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The unique index of a particular dial string."  
::= { mdmCCStoredDialStringEntry 1 }

mdmCCStoredDialString OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..64))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"A dial string stored in the modem."  
::= { mdmCCStoredDialStringEntry 2 }

-- The modem Error Correcting Group

mdmECTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MdmECEnter  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The modem error correcting table augments the modem ID  
table."  
::= { mdmMIBObjects 9 }

mdmECEnter OBJECT-TYPE

SYNTAX MdmEEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Entries in this table are created only by the agent. One  
entry exists for each modem managed by the agent."  
AUGMENTS  
{ mdmIDEntry }  
::= { mdmECTable 1 }

MdmEEntry ::= SEQUENCE {  
mdmEErrorControlUsed OBJECT IDENTIFIER  
}

mdmEErrorControlUsed OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Indicates the error control method used during the current  
or previous call. This shall be one of the values for error  
control protocols registered in the capabilities table for  
this modem. If no error control protocol is in use, this  
object shall have the value '{0 0}'."  
REFERENCE "V.58 errorControlActive"  
::= { mdmEEntry 1 }

-- The modem Data Compression Group

mdmDCTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MdmDCEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The modem data compression table augments the modem ID  
table."  
::= { mdmMIBObjects 10 }

mdmDCEntry OBJECT-TYPE  
SYNTAX MdmDCEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Entries in this table are created only by the agent. One  
entry exists for each modem managed by the agent."  
AUGMENTS { mdmIDEntry }  
::= { mdmDCTable 1 }

```
MdmDCEntry ::= SEQUENCE {
    mdmDCCompressionTypeUsed    OBJECT IDENTIFIER
}
```

mdmDCCompressionTypeUsed OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates the data compression method used during the current or previous call. This shall be one of the values for compression protocols registered in the capabilities table for this modem. If no compression protocol is in use, this object shall have the value '{0 0}'."

::= { mdmDCEntry 1 }

-- The modem Signal Convertor Group

mdmSCTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmSCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem signal convertor table augments the modem ID table."

::= { mdmMIBObjects 11 }

mdmSCEntry OBJECT-TYPE

SYNTAX MdmSCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmSCTable 1 }

```
MdmSCEntry ::= SEQUENCE {
```

```
    mdmSCCurrentLineTransmitRate    Integer32,
```

```
    mdmSCCurrentLineReceiveRate     Integer32,
```

```
    mdmSCInitialLineTransmitRate    Integer32,
```

```
    mdmSCInitialLineReceiveRate     Integer32,
```

```
    mdmSCModulationSchemeUsed       OBJECT IDENTIFIER
```

```
}
```

mdmSCCurrentLineTransmitRate OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The current link transmit rate of a connection, or the last  
link transmit rate of the last connection  
in bits per  
second."  
REFERENCE "V.58 transmissionSignallingRateActive"  
::= { mdmSCEntry 1 }

mdmSCCurrentLineReceiveRate OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The current link receive rate of a connection, or the last  
link receive rate of the last connection in bits per  
second."  
REFERENCE "V.58 transmissionSignallingRateActive"  
::= { mdmSCEntry 2 }

mdmSCInitialLineTransmitRate OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The initial link transmit rate of the current connection,  
or the initial link transmit rate of the last connection in  
bits per second."  
::= { mdmSCEntry 3 }

mdmSCInitialLineReceiveRate OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The initial link receive rate of the  
current connection, or  
the initial link receive rate of the last connection in bits  
per second."  
::= { mdmSCEntry 4 }

mdmSCModulationSchemeUsed OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The modulation scheme of the current or previous call.  
This shall be one of the values for modulation protocols



```
    registered in the capabilities table for this modem."
REFERENCE "V.58 gstmModulationSchemeActive"
::= { mdmSCEnter 5 }
```

-- The Modem Statistics Table

```
mdmStatsTable OBJECT-TYPE
SYNTAX SEQUENCE OF MdmStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The modem statistics Table augments the modem ID table."
::= { mdmMIBObjects 12 }
```

```
mdmStatsEntry OBJECT-TYPE
SYNTAX MdmStatsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Entries in this table are
created only by the agent. One
entry exists for each modem managed by the agent."
AUGMENTS { mdmIDEntry }
::= { mdmStatsTable 1 }
```

```
MdmStatsEntry ::= SEQUENCE {
    mdmStatsRingNoAnswers Counter32,
    mdmStatsIncomingConnectionFailures Counter32,
    mdmStatsIncomingConnectionCompletions Counter32,
    mdmStatsFailedDialAttempts Counter32,
    mdmStatsOutgoingConnectionFailures Counter32,
    mdmStatsOutgoingConnectionCompletions Counter32,
    mdmStatsRetrains Counter32,
    mdmStats2400OrLessConnections Counter32,
    mdmStats2400To14400Connections Counter32,
    mdmStatsGreaterThen14400Connections Counter32,
    mdmStatsErrorControlledConnections Counter32,
    mdmStatsCompressedConnections Counter32,
    mdmStatsCompressionEfficiency Integer32,
    mdmStatsSentOctets Counter32,
    mdmStatsReceivedOctets
Counter32,
    mdmStatsSentDataFrames Counter32,
    mdmStatsReceivedDataFrames Counter32,
    mdmStatsResentFrames Counter32,
    mdmStatsErrorFrames Counter32
}
```

mdmStatsRingNoAnswers OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of events in which ringing was detected but the call was not answered."

::= { mdmStatsEntry 1 }

mdmStatsIncomingConnectionFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of incoming connection requests that this modem answered in which it could not train with the other DCE."

::= { mdmStatsEntry 2 }

mdmStatsIncomingConnectionCompletions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of incoming connection requests that this modem answered and successfully trained with the other DCE."

::= { mdmStatsEntry 3 }

mdmStatsFailedDialAttempts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of call attempts that failed because the modem didn't go off hook, or there was no dialtone."

::= { mdmStatsEntry 4 }

mdmStatsOutgoingConnectionFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of outgoing calls from this modem which successfully went off hook and dialed, in which it could not train with the other DCE."

::= { mdmStatsEntry 5 }

mdmStatsOutgoingConnectionCompletions OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of outgoing calls from this modem which resulted  
  
    in successfully training with the other DCE."  
 ::= { mdmStatsEntry 6 }

mdmStatsRetrains OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of retrains experienced on connections on this  
    line."  
 ::= { mdmStatsEntry 7 }

-- Utilization counters

mdmStats2400OrLessConnections OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of connections initially established at a  
    modulation speed of 2400 bits per second or less."  
 ::= { mdmStatsEntry 8 }

mdmStats2400To14400Connections OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of connections initially established at a  
    modulation speed of greater than 2400 bits per second and  
    less than 14400 bits per second."  
 ::= { mdmStatsEntry 9 }

mdmStatsGreaterThan14400Connections

OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of connections initially established at a

modulation speed of greater than 14400 bits per second."  
::= { mdmStatsEntry 10 }

mdmStatsErrorControlledConnections OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of established connections using an error control protocol."  
::= { mdmStatsEntry 11 }

mdmStatsCompressedConnections OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of established connections using a compression protocol."  
::= { mdmStatsEntry 12 }

mdmStatsCompressionEfficiency OBJECT-TYPE

SYNTAX Integer32 (0..65535)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of bytes transferred into the compression encoder divided by the number of bytes transferred out of the encoder, multiplied by 100 for either the current or last call. If a data compression protocol is not in use, this value shall be `100'."  
REFERENCE "V.58 compressionEfficiency"  
::= { mdmStatsEntry 13 }

mdmStatsSentOctets OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of octets presented to the modem by the DTE."  
::= { mdmStatsEntry 14 }

mdmStatsReceivedOctets OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of octets presented to the DTE by the modem."  
 ::= { mdmStatsEntry 15 }

mdmStatsSentDataFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of data frames sent on the line interface. If

there is no frame-oriented protocol in use on the line  
interface, this counter shall not increment."

::= { mdmStatsEntry 16 }

mdmStatsReceivedDataFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of data frames received on the line interface.  
If there is no frame-oriented protocol in use on the line  
interface, this counter shall not increment."

::= { mdmStatsEntry 17 }

mdmStatsResentFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of times this modem retransmits frames on the  
line interface. If there is no frame-oriented protocol in  
use on the line interface, this counter shall not  
increment."

::= { mdmStatsEntry 18 }

mdmStatsErrorFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of block errors received on the link. If there  
is no frame-oriented protocol in use on the line interface,  
this counter shall not increment."

::= { mdmStatsEntry 19 }

-- compliance statements

mdmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMPv2 entities which implement the modem MIB."

MODULE -- this module

MANDATORY-GROUPS { mdmIDGroup, mdmLineInterfaceGroup,  
mdmDTEInterfaceGroup, mdmCallControlGroup,  
mdmSignalConvertorGroup, mdmStatisticsGroup }

GROUP mdmErrorControlGroup

DESCRIPTION

"This group is mandatory only for those modems that implement an error correction protocol."

GROUP mdmDataCompressionGroup

DESCRIPTION

"This group is mandatory only for those modems that implement a data compression protocol."

::= { mdmCompliances 1 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB

No license file was found, but licenses were detected in source scan.

RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS

mgmt, OBJECT-TYPE, NetworkAddress, IPAddress,  
Counter, Gauge, TimeTicks  
FROM RFC1155-SMI;

DisplayString ::=

OCTET STRING

mib-2 OBJECT IDENTIFIER ::= { mgmt 1 } -- MIB-II  
-- (same prefix as MIB-I)

system OBJECT IDENTIFIER ::= { mib-2 1 }

interfaces OBJECT IDENTIFIER ::= { mib-2 2 }

at OBJECT IDENTIFIER ::= { mib-2 3 }

ip OBJECT IDENTIFIER ::= { mib-2 4 }

icmp OBJECT IDENTIFIER ::= { mib-2 5 }

```
tcp    OBJECT IDENTIFIER ::= { mib-2 6 }
udp    OBJECT IDENTIFIER ::= { mib-2 7 }
egp    OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp    OBJECT IDENTIFIER ::= { mib-2 11 }
```

```
-- object types
```

```
-- the System group
```

```
sysDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { system 1 }
```

```
sysObjectID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    ACCESS read-only
    STATUS mandatory
    ::= { system 2 }
```

```
sysUpTime OBJECT-TYPE
    SYNTAX TimeTicks
    ACCESS read-only
    STATUS mandatory
    ::= { system 3 }
```

```
sysContact OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-write
    STATUS mandatory
    ::= { system 4 }
```

```
sysName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-write
    STATUS mandatory
    ::= { system 5 }
```

```
sysLocation OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { system 6 }
```

```

sysServices OBJECT-TYPE
    SYNTAX INTEGER (0..127)
    ACCESS read-only
    STATUS mandatory
    ::= { system 7 }

-- the Interfaces group

ifNumber OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS
mandatory
    ::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE
    SYNTAX SEQUENCE OF IfEntry
    ACCESS read-only
    STATUS mandatory
    ::= { interfaces 2 }

ifEntry OBJECT-TYPE
    SYNTAX IfEntry
    ACCESS read-only
    STATUS mandatory
    ::= { ifTable 1 }

IfEntry ::= SEQUENCE {
    ifIndex
        INTEGER,
    ifDescr
        DisplayString,
    ifType
        INTEGER,
    ifMtu
        INTEGER,
    ifSpeed
        Gauge,
    ifPhysAddress
        OCTET STRING,
    ifAdminStatus
        INTEGER,
    ifOperStatus
        INTEGER,
    ifLastChange

```



```

    TimeTicks,
ifInOctets
    Counter,
ifInUcastPkts
    Counter,
ifInNUcastPkts
    Counter,
ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}

```

```

ifIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 1 }

```

```

ifDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 2 }

```

```

ifType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),          -- none of the
                           -- following
        regular1822(2),
        hdh1822(3),
        ddn-x25(4),

```

```

rfc877-x25(5),
ethernet-csmacd(6),
iso88023-csmacd(7),
iso88024-tokenBus(8),
iso88025-tokenRing(9),
iso88026-man(10),
starLan(11),
proteon-10Mbit(12),
proteon-80Mbit(13),
hyperchannel(14),
fddi(15),
lapb(16),
sdlc(17),
t1-carrier(18),
cept(19),    -- european
              --equivalent of T-1
basicISDN(20),
primaryISDN(21),
              -- proprietary
              -- serial
propPointToPointSerial(22),
terminalServer-asyncPort(23),
softwareLoopback(24),
eon(25),     -- CLNP over IP
ethernet-3Mbit(26),
nsip(27),    -- XNS over IP
slip(28)     -- generic SLIP
}
ACCESS read-only
STATUS mandatory
::= { ifEntry 3 }

```

```

ifMtu OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 4 }

```

```

ifSpeed
    OBJECT-TYPE
        SYNTAX Gauge
        ACCESS read-only
        STATUS mandatory
        ::= { ifEntry 5 }

```

```

ifPhysAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    ACCESS read-only

```

STATUS mandatory

::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-write

STATUS mandatory

::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-only

STATUS mandatory

::= { ifEntry 8 }

ifLastChange OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

::= { ifEntry 9 }

ifInOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 14 }

ifInUnknownProtos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 17 }

ifOutNUcastPkts

OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

::= { ifEntry 21 }

ifSpecific OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE

SYNTAX SEQUENCE OF AtEntry

ACCESS read-write

STATUS deprecated

::= { at 1 }

atEntry OBJECT-TYPE

SYNTAX AtEntry

ACCESS read-write

STATUS deprecated

::= { atTable 1 }

AtEntry ::=

SEQUENCE {

atIfIndex

INTEGER,

atPhysAddress

OCTET STRING,

atNetAddress

NetworkAddress

}

atIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS deprecated

::= { atEntry 1 }

atPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS deprecated

```

::= { atEntry 2 }

atNetAddress OBJECT-TYPE
    SYNTAX NetworkAddress
    ACCESS read-write
    STATUS deprecated
    ::= { atEntry 3 }

-- the IP group

ipForwarding OBJECT-TYPE
    SYNTAX INTEGER {
        gateway(1), -- entity forwards
                    -- datagrams
        host(2)    -- entity does NOT
                    -- forward datagrams
    }
    ACCESS read-write
    STATUS mandatory
    ::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-write
    STATUS mandatory
    ::=
    { ip 2 }

ipInReceives OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 3 }

ipInHdrErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 4 }

ipInAddrErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { ip 5 }

ipForwDatagrams OBJECT-TYPE

```

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= {  
ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 15 }

ipReasmFails OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 16 }

ipFragOKs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 17 }

ipFragFails OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 18 }

ipFragCreates

OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpAddrEntry  
ACCESS read-only  
STATUS mandatory  
::= { ip 20 }

ipAddrEntry OBJECT-TYPE

SYNTAX IpAddrEntry  
ACCESS read-only



```

STATUS mandatory
::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {
    ipAdEntAddr
        IPAddress,
    ipAdEntIfIndex
        INTEGER,
    ipAdEntNetMask
        IPAddress,
    ipAdEntBcastAddr
        INTEGER,
    ipAdEntReasmMaxSize
        INTEGER (0..65535)
}

ipAdEntAddr OBJECT-TYPE
    SYNTAX IPAddress
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE
    SYNTAX IPAddress
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    ::= { ipAddrEntry 5 }

-- the IP Routing table

```

ipRoutingTable OBJECT-TYPE  
SYNTAX SEQUENCE OF IpRouteEntry  
ACCESS read-write  
STATUS mandatory  
::= { ip 21 }

ipRouteEntry OBJECT-TYPE  
SYNTAX IpRouteEntry  
ACCESS read-write  
STATUS mandatory  
::= { ipRoutingTable 1 }

IpRouteEntry ::= SEQUENCE {  
ipRouteDest  
    IpAddress,  
ipRouteIfIndex  
    INTEGER,  
ipRouteMetric1  
    INTEGER,  
ipRouteMetric2  
    INTEGER,  
ipRouteMetric3  
    INTEGER,  
ipRouteMetric4  
    INTEGER,  
ipRouteNextHop  
    IpAddress,  
ipRouteType  
    INTEGER,  
ipRouteProto  
    INTEGER,  
ipRouteAge  
    INTEGER,  
ipRouteMask  
    IpAddress  
}

ipRouteDest OBJECT-TYPE  
SYNTAX IpAddress  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress  
ACCESS read-write  
STATUS mandatory

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

SYNTAX INTEGER {  
    other(1), -- none of the following  
  
    invalid(2), -- an invalidated route  
  
        -- route to directly  
    direct(3), -- connected  
        -- (sub-)network  
  
        -- route to a non-local  
    remote(4) -- host/network/  
        -- sub-network  
}

ACCESS read-write  
STATUS mandatory

::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

-- non-protocol

-- information

-- e.g., manually

local(2), -- configured entries

-- set via a network

netmgmt(3),

-- management protocol

-- obtained via ICMP,

icmp(4), -- e.g., Redirect

-- the following are

-- gateway routing

-- protocols

egp(5),

ggp(6),

hello(7),

rip(8),

is-is(9),

es-is(10),

ciscoIgrp(11),

bbnSpfIgp(12),

ospf(13),

bgp(14)

}

ACCESS read-only

STATUS mandatory

::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 11 }

-- the IP Address Translation tables

ipNetToMediaTable

OBJECT-TYPE

SYNTAX SEQUENCE OF IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE

SYNTAX IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {

ipNetToMediaIfIndex

INTEGER,

ipNetToMediaPhysAddress

OCTET STRING,

ipNetToMediaNetAddress

IpAddress,

ipNetToMediaType

INTEGER

}

ipNetToMediaIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

```
SYNTAX INTEGER {
    other(1), -- none of the following

    invalid(2), -- an invalidated mapping
    dynamic(3), -- connected (sub-)network

    static(4)
}
ACCESS read-write
STATUS mandatory
::= { ipNetToMediaEntry 4 }
```

-- the ICMP group

```
icmpInMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 1 }
```

```
icmpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 2 }
```

```
icmpInDestUnreachs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 3 }
```

```
icmpInTimeExcds OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 4 }
```

```
icmpInParmProbs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 5 }
```

```
icmpInSrcQuenchs
OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
```

STATUS mandatory  
::= { icmp 6 }

icmpInRedirects OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 7 }

icmpInEchos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
::= { icmp 14 }

icmpOutErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter



```
ACCESS read-only
STATUS mandatory
::= { icmp 22 }
```

icmpOutTimestamps OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 23 }
```

icmpOutTimestampReps OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 24 }
```

icmpOutAddrMasks OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 25 }
```

icmpOutAddrMaskReps OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 26 }
```

-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE

```
SYNTAX INTEGER {
    other(1), -- none of the following
    constant(2), -- a constant rto
    rsre(3), -- MIL-STD-1778,
              -- Appendix B

    vanj(4) -- Van Jacobson's
            -- algorithm
}
```

```
ACCESS read-only
STATUS mandatory
::= { tcp 1 }
```

tcpRtoMin OBJECT-TYPE

```
SYNTAX INTEGER
ACCESS read-only
```

STATUS mandatory  
::= { tcp 2 }

tcpRtoMax OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { tcp 3 }

tcpMaxConn OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 7 }

tcpEstabResets OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
  
STATUS mandatory  
::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE  
SYNTAX Gauge  
ACCESS read-only  
STATUS mandatory  
::= { tcp 9 }

tcpInSegs OBJECT-TYPE  
SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
::= { tcp 10 }

tcpOutSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 12 }

-- the TCP connections table

tcpConnTable OBJECT-TYPE  
SYNTAX SEQUENCE OF TcpConnEntry  
ACCESS read-only  
STATUS mandatory  
::= { tcp 13 }

tcpConnEntry OBJECT-TYPE  
SYNTAX TcpConnEntry  
ACCESS read-only  
STATUS mandatory  
::= { tcpConnTable 1 }

TcpConnEntry ::= SEQUENCE {  
tcpConnState  
INTEGER,  
tcpConnLocalAddress  
IpAddress,  
tcpConnLocalPort  
INTEGER (0..65535),  
tcpConnRemAddress  
IpAddress,  
tcpConnRemPort  
INTEGER (0..65535)  
}

tcpConnState OBJECT-TYPE  
SYNTAX INTEGER {  
closed(1),  
listen(2),  
synSent(3),

```
        synReceived(4),
        established(5),
        finWait1(6),
        finWait2(7),
        closeWait(8),
        lastAck(9),
        closing(10),
        timeWait(11)
    }
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 1 }
```

tcpConnLocalAddress OBJECT-TYPE

```
SYNTAX IpAddress
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 2 }
```

tcpConnLocalPort OBJECT-TYPE

```
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 3 }
```

tcpConnRemAddress OBJECT-TYPE

```
SYNTAX IpAddress
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 4 }
```

tcpConnRemPort OBJECT-TYPE

```
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 5 }
```

-- additional TCP variables

tcpInErrs OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 14 }
```

tcpOutRsts OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
```

```

STATUS mandatory
::= { tcp 15 }

-- the UDP group

udpInDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 1 }

udpNoPorts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 2 }

udpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { udp 4 }

-- the UDP listener table

udpTable
    OBJECT-TYPE
        SYNTAX SEQUENCE OF UdpEntry
        ACCESS read-only
        STATUS mandatory
        ::= { udp 5 }

udpEntry OBJECT-TYPE
    SYNTAX UdpEntry
    ACCESS read-only
    STATUS mandatory
    ::= { udpTable 1 }

UdpEntry ::= SEQUENCE {
    udpLocalAddress
        IpAddress,

```

```
udpLocalPort
  INTEGER (0..65535)
}
```

```
udpLocalAddress OBJECT-TYPE
  SYNTAX IpAddress
  ACCESS read-only
  STATUS mandatory
  ::= { udpEntry 1 }
```

```
udpLocalPort OBJECT-TYPE
  SYNTAX INTEGER (0..65535)
  ACCESS read-only
  STATUS mandatory
  ::= { udpEntry 2 }
```

-- the EGP group

```
egpInMsgs OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  ::= { egp 1 }
```

```
egpInErrors OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  ::= { egp 2 }
```

```
egpOutMsgs OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  ::= { egp 3 }
```

```
egpOutErrors OBJECT-TYPE
  SYNTAX Counter
  ACCESS read-only
  STATUS mandatory
  ::= { egp 4 }
```

-- the EGP Neighbor table

```
egpNeighTable OBJECT-TYPE
  SYNTAX SEQUENCE OF EgpNeighEntry
  ACCESS read-only
  STATUS mandatory
```

::= { egp 5 }

egpNeighEntry OBJECT-TYPE

SYNTAX EgpNeighEntry

ACCESS read-only

STATUS mandatory

::= { egpNeighTable 1 }

EgpNeighEntry ::= SEQUENCE {

egpNeighState

INTEGER,

egpNeighAddr

IpAddress,

egpNeighAs

INTEGER,

egpNeighInMsgs

Counter,

egpNeighInErrs

Counter,

egpNeighOutMsgs

Counter,

egpNeighOutErrs

Counter,

egpNeighInErrMsgs

Counter,

egpNeighOutErrMsgs

Counter,

egpNeighStateUps

Counter,

egpNeighStateDowns

Counter,

egpNeighIntervalHello

INTEGER,

egpNeighIntervalPoll

INTEGER,

egpNeighMode

INTEGER,

egpNeighEventTrigger

INTEGER

}

egpNeighState OBJECT-TYPE

SYNTAX INTEGER {

idle(1),

acquisition(2),

down(3),

up(4),

cease(5)

```

    }
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE
    SYNTAX IpAddress
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS
mandatory
    ::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 8 }

```



egpNeighOutErrMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
  
::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE

SYNTAX INTEGER {  
    active(1),  
    passive(2)  
}  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE

SYNTAX INTEGER {  
    start(1),  
    stop(2)  
}  
ACCESS read-write  
STATUS mandatory  
::= { egpNeighEntry 15 }

```
-- additional EGP variables

egpAs OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egp 6 }

-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 1 }

snmpOutPkts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE
    SYNTAX Counter
    ACCESS
read-only
    STATUS mandatory
    ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
```

STATUS mandatory  
::= { snmp 6 }

snmpInBadTypes OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 7 }

snmpInTooBigs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 9 }

snmpInBadValues OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only

STATUS mandatory  
::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 18 }

snmpInTraps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only

STATUS mandatory  
::= { snmp 22 }

snmpOutReadOnlys OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 23 }

snmpOutGenErrs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE  
SYNTAX Counter  
  
ACCESS read-only  
STATUS mandatory  
::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 28 }

snmpOutTraps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 29 }

snmpEnableAuthTraps OBJECT-TYPE  
SYNTAX INTEGER {

```
        enabled(1),
        disabled(2)
    }
ACCESS read-write
STATUS mandatory
::= { snmp 30 }
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-MIB

No license file was found, but licenses were detected in source scan.

PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY,
OBJECT-TYPE,
OBJECT-IDENTITY,
Unsigned32,
Counter32,
NOTIFICATION-TYPE,
mib-2
    FROM SNMPv2-SMI          -- [RFC2578]
TEXTUAL-CONVENTION,
RowStatus,
TruthValue
    FROM SNMPv2-TC          -- [RFC2579]
OBJECT-GROUP,
MODULE-COMPLIANCE,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF        -- [RFC2580]
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB   -- [RFC4001]
sysDescr
    FROM SNMPv2-MIB         -- [RFC3418]
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB -- [RFC3411]
docsDevSoftwareGroupV2
    FROM DOCS-CABLE-DEVICE-MIB -- [RFC4639]
DocsX509ASN1DEREncodedCertificate,
docsBpi2CodeDownloadGroup
    FROM DOCS-IETF-BPI2-MIB -- [RFC4131]
LongUtf8String
    FROM SYSAPPL-MIB        -- [RFC2287]
ifPhysAddress
```

FROM IF-MIB; -- [RFC2863]

pktcIetfMtaMib MODULE-IDENTITY

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DESCRIPTION

"This MIB module defines the basic management object for the Multimedia Terminal Adapter devices compliant with PacketCable and IPCablecom requirements.

Copyright (C) The IETF Trust (2006). This version of this MIB module is part of RFC 4682; see the RFC itself for full legal notices."

REVISION "200609180000Z" -- September 18, 2006

DESCRIPTION

"Initial version, published as RFC 4682."

::= { mib-2 140 }

-- Textual Conventions

PktcMtaDevProvEncryptAlg ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This textual convention defines various types of the encryption algorithms used for the encryption of the MTA configuration file. The description of the encryption algorithm for each enumerated value is as follows:

'none(0)' no encryption

is used,

'des64CbcMode(1)' DES 64-bit key in CBC mode,

't3Des192CbcMode(2)' 3DES 192-bit key in CBC mode,

'aes128CbcMode(3)' AES 128-bit key in CBC mode,

'aes256CbcMode(4)' AES 256-bit key in CBC mode."

SYNTAX INTEGER {

none (0),

des64CbcMode (1),

t3Des192CbcMode (2),

aes128CbcMode (3),

aes256CbcMode (4)

}

=====  
-- The MTA MIB module only supports a single Provisioning Server.  
=====

pktcMtaNotification OBJECT IDENTIFIER ::= { pktcIetfMtaMib 0 }

pktcMtaMibObjects OBJECT IDENTIFIER ::= { pktcIetfMtaMib 1 }

pktcMtaDevBase OBJECT IDENTIFIER ::= { pktcMtaMibObjects 1 }

pktcMtaDevServer OBJECT IDENTIFIER ::= { pktcMtaMibObjects 2 }

pktcMtaDevSecurity OBJECT IDENTIFIER ::= { pktcMtaMibObjects 3 }

}

pktcMtaDevErrors OBJECT IDENTIFIER ::= { pktcMtaMibObjects 4 }

pktcMtaConformance OBJECT IDENTIFIER ::= { pktcIetfMtaMib 2 }

--

-- The following pktcMtaDevBase group describes the base MTA objects

--

pktcMtaDevResetNow OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current



## DESCRIPTION

- " This object controls the MTA software reset.  
Reading this object always returns 'false'. Setting this object to 'true' causes the device to reset immediately and the following actions to occur:
1. All connections (if present) are flushed locally.
  2. All current actions such as ringing immediately terminate.
  3. Requests for signaling notifications, such as notification based on digit map recognition, are flushed.
  4. All endpoints are disabled.
  5. The provisioning flow is started at step MTA-1.

If a value is written into an instance of  
pktcMtaDevResetNow, the agent **MUST NOT** retain the supplied value across MTA re-initializations or reboots."

## REFERENCE

" PacketCable MTA Device Provisioning Specification."  
::= { pktcMtaDevBase 1 }

### pktcMtaDevSerialNumber OBJECT-TYPE

SYNTAX SnmpAdminString  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

" This object specifies the manufacturer's serial number of this MTA. The value of this object **MUST** be identical to the value specified in DHCP option 43, sub-option 4. The list of sub-options for DHCP option 43 are defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."  
::= { pktcMtaDevBase 2 }

### pktcMtaDevSwCurrentVers OBJECT-TYPE

SYNTAX SnmpAdminString  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

" This object identifies the software version currently operating in the MTA.  
The MTA **MUST** return a string descriptive of the current software load. This object should use the syntax

defined by the individual vendor to identify the software version. The data presented in this object MUST be identical to the software version information contained in the 'sysDescr' MIB object of the MTA. The value of this object MUST be identical to the value specified in DHCP option 43, sub-option 6. The list of sub-options for DHCP option 43 are defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 3 }

pktcMtaDevFQDN OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Fully Qualified Domain Name for this MTA. The MTA FQDN is used to uniquely identify the device to the PacketCable back office elements."

::= { pktcMtaDevBase 4 }

pktcMtaDevEndPntCount OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the number of physical endpoints for this MTA."

::= { pktcMtaDevBase 5 }

pktcMtaDevEnabled OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the MTA Admin Status of this device. If this object is set to 'true', the MTA is administratively enabled, and the MTA MUST be able to interact with the PacketCable entities, such as CMS, Provisioning Server, KDC, and other MTAs and MGs on all PacketCable interfaces. If this object is set to 'false', the MTA is

administratively disabled, and the MTA MUST perform the following actions for all endpoints:

- Shut down all media sessions, if present.
- Shut down Network Control Signaling (NCS) signaling by following the Restart in Progress procedures in the PacketCable NCS specification.

The MTA must execute all actions required to enable or disable the telephony services for all endpoints immediately upon receipt of an SNMP SET operation.

Additionally, the MTA MUST maintain the SNMP Interface for management and also the SNMP Key management interface. Also, the MTA MUST NOT continue Kerberized key management with CMSes until this object is set to 'true'.

Note: MTAs MUST renew the CMS Kerberos tickets according to the PacketCable Security or IPCablecom Specification.

If a value is written into an instance

of

pkcMtaDevEnabled, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
PacketCable Security Specification;  
PacketCable Network-Based Call Signaling Protocol

Specification."

::= { pkcMtaDevBase 6 }

pkcMtaDevTypeIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object provides the MTA device type identifier. The value of this object must be a copy of the DHCP option 60 value exchanged between the MTA and the DHCP server. The DHCP option 60 value contains an ASCII-encoded string identifying capabilities of the MTA as defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" RFC 2132, DHCP Options and BOOTP Vendor Extensions;  
PacketCable

MTA Device Provisioning Specification."

::= { pktcMtaDevBase 7 }

pktcMtaDevProvisioningState OBJECT-TYPE

SYNTAX INTEGER {

pass (1),  
inProgress (2),  
failConfigFileError (3),  
passWithWarnings (4),  
passWithIncompleteParsing (5),  
failureInternalError (6),  
failureOtherReason (7)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates the completion state of the MTA device provisioning process.

pass:

If the configuration file could be parsed successfully and the MTA is able to reflect the same in its MIB, the MTA MUST return the value 'pass'.

inProgress:

If the MTA is in the process of being provisioned, the MTA MUST return the value 'inProgress'.

failConfigFileError:

If the configuration file was in error due to incorrect values in the mandatory parameters, the MTA MUST reject the configuration file, and the MTA MUST return the value

'failConfigFileError'.

passWithWarnings:

If the configuration file had proper values for all the mandatory parameters but has errors in any of the optional parameters (this includes any vendor-specific Object Identifiers (OIDs) that are incorrect or not known to the MTA), the MTA MUST return the value 'passWithWarnings'.

passWithIncompleteParsing:

If the configuration file is valid but the MTA cannot reflect the same in its configuration (for example, too

many entries caused memory exhaustion), it must accept the CMS configuration entries related, and the MTA MUST return the value 'passWithIncompleteParsing'.

failureInternalError:

If the configuration file cannot be parsed due to an Internal error, the MTA MUST return the value 'failureInternalError'.

failureOtherReason:

If the MTA cannot accept the configuration file for any other reason than the ones stated above, the MTA MUST return the value 'failureOtherReason'.

When a final SNMP INFORM is sent as part of Step 25 of the MTA Provisioning process, this parameter is also included in the final INFORM message."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 8 }

pktcMtaDevHttpAccess OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates whether the HTTP protocol is supported for the MTA configuration file transfer."

::= { pktcMtaDevBase 9 }

pktcMtaDevProvisioningTimer OBJECT-TYPE

SYNTAX Unsigned32

(0..30)

UNITS "minutes"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines the time interval for the provisioning flow to complete. The MTA MUST finish all provisioning operations starting from the moment when an MTA receives its DHCP ACK and ending at the moment when the MTA downloads its configuration file (e.g., MTA5 to MTA23) within the period of time set by this object.

Failure to comply with this condition constitutes a provisioning flow failure. If the object is set to 0,

the MTA MUST ignore the provisioning timer condition.  
If a value is written into an instance of  
pktcMtaDevProvisioningTimer, the agent MUST NOT retain the  
supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

DEFVAL {10}

::= {pktcMtaDevBase 10}

pktcMtaDevProvisioningCounter

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts the number of times the  
provisioning cycle has looped through step MTA-1."

::= {pktcMtaDevBase 11}

pktcMtaDevErrorOidsTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table contains the list of configuration errors or  
warnings the MTA encountered when parsing the  
configuration file it received from the Provisioning  
Server.

For each error, an entry is created in this table,  
containing the configuration parameters the MTA rejected  
and the associated reason (e.g., wrong or unknown OID,  
inappropriate object values). If the MTA  
did not report a provisioning state of 'pass(1)' in  
the pktcMtaDevProvisioningState object, this

table MUST be

populated for each error or warning instance. Even if  
different parameters share the same error type (e.g., all  
realm name configuration parameters are invalid), all  
observed errors or warnings must be reported as  
different instances. Errors are placed into the table in  
no particular order. The table MUST be cleared each time

the MTA reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= {pktcMtaDevBase 12 }

pktcMtaDevErrorOidsEntry OBJECT-TYPE

SYNTAX PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This entry contains the necessary information the MTA MUST attempt to provide in case of configuration file errors or warnings."

INDEX { pktcMtaDevErrorOidIndex }

::= {pktcMtaDevErrorOidsTable 1 }

PktcMtaDevErrorOidsEntry ::= SEQUENCE {

pktcMtaDevErrorOidIndex Unsigned32,

pktcMtaDevErrorOid SnmpAdminString,

pktcMtaDevErrorValue SnmpAdminString,

pktcMtaDevErrorReason SnmpAdminString

}

pktcMtaDevErrorOidIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..1024)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object is the index of the MTA configuration error table. It is an integer value that starts at value '1' and is incremented for each encountered configuration file error or warning.

The maximum number of errors or warnings that can be recorded in the pktcMtaDevErrorOidsTable is set to 1024 as a configuration file is usually validated by operators before deployment. Given the possible number of configuration parameter assignments in the MTA configuration file, 1024 is perceived as a sufficient limit even with future extensions.

If the number of the errors in the configuration file

exceeds 1024, all errors beyond the 1024th one MUST be ignored and not be reflected in the pktcMtaDevErrorOidsTable."

::= {pktcMtaDevErrorOidsEntry 1 }

pktcMtaDevErrorOid OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a human readable representation (character string) of the OID corresponding to the configuration file parameter that caused the particular error.

For example, if the value of the pktcMtaDevEnabled object in the configuration file caused an error, then this object instance will contain the human-readable string of '1.3.6.1.2.1.140.1.1.6.0'.

If the MTA generated an error because it was not able to recognize a particular OID, then this object instance would contain an empty value (zero-length string).

For example,

if the value of an OID in the configuration

file was interpreted by the MTA as being 1.2.3.4.5, and if the MTA was not able to recognize this OID as a valid one, this object instance will contain a zero-length string.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the pktcMtaDevErrorOid of the table's 1024th entry MUST contain a human-readable representation of the pktcMtaDevErrorsTooManyErrors object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'.

Note that the syntax of this object is SnmpAdminString instead of OBJECT IDENTIFIER because the object value may not be a valid OID due to human or configuration tool encoding errors."

::= {pktcMtaDevErrorOidsEntry 2}

pktcMtaDevErrorValue OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This

object contains the value of the OID corresponding to the configuration file parameter that caused the error.

If the MTA cannot recognize the OID of the configuration parameter causing the error, then this object instance contains the OID itself as interpreted by the MTA in human-readable representation.



If the MTA can recognize the OID but generate an error due to a wrong value of the parameter, then the object

instance contains the erroneous value of the parameter as read from the configuration file.

In both cases, the value of this object must be represented in human-readable form as a character string. For example, if the value of the `pktcMtaDevEnabled` object in the configuration file was 3 (invalid value), then the `pktcMtaDevErrorValue` object instance will contain the human-readable (string) representation of value '3'.

Similarly, if the OID in the configuration file has been interpreted by the MTA as being 1.2.3.4.5 and the MTA cannot recognize this OID as a valid one, then this `pktcMtaDevErrorValue` object instance will contain human readable (string) representation of value '1.2.3.4.5'.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the `pktcMtaDevErrorValue` of the table's 1024th entry MUST contain a human-readable representation of the `pktcMtaDevErrorsTooManyErrors` object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'."

```
::= {pktcMtaDevErrorOidsEntry 3}
```

`pktcMtaDevErrorReason` OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates the reason for the error or warning, as per the MTA's interpretation, in human-readable form.

For example:

'VALUE NOT IN RANGE', 'VALUE DOES NOT MATCH TYPE',  
'UNSUPPORTED VALUE', 'LAST 4 BITS MUST BE SET TO ZERO',  
'OUT OF MEMORY - CANNOT STORE'.

This object may also contain vendor specific errors for private vendor OIDs and any proprietary error codes or messages that can help diagnose configuration errors.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the `pktcMtaDevErrorReason` of the table's 1024th entry MUST

```
        contain a human-readable string indicating the reason
        for an error; for example,
        'Too many errors in the configuration file'."
 ::= { pktcMtaDevErrorOidsEntry 4 }

--
-- The following group describes server access and parameters used

-- for the initial MTA provisioning and bootstrapping phases.
--
```

```
pktcMtaDevDhcpServerAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This object contains the Internet address type for the
          PacketCable DHCP servers specified in MTA MIB."
    DEFVAL { ipv4 }
    ::= { pktcMtaDevServer 1 }
```

```
pktcMtaDevServerDhcp1 OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This object contains the Internet Address of the primary
          DHCP server the MTA uses during provisioning.
          The type of this address is determined by the value of
          the pktcMtaDevDhcpServerAddressType object.
          When the latter has the value 'ipv4(1)', this object
          contains the IP address of the primary DHCP
          server. It is provided by the CM to the MTA via the DHCP
          option code 122, sub-option 1, as defined in RFC 3495.
```

The behavior of this object when the value of pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If this object is of value 0.0.0.0, the MTA MUST stop all provisioning attempts, as well as all other activities.

If this object is of value 255.255.255.255, it means that there was no preference given for the primary DHCP server, and, the MTA must follow the logic of RFC2131, and the value of DHCP option 122,

sub-option 2, must be ignored."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 2131, Dynamic Host Configuration Protocol;  
RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 2 }

pktcMtaDevServerDhcp2 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet Address of the secondary  
DHCP server the MTA uses during provisioning.

The type of this address

is determined by the value of

the pktcMtaDevDhcpServerAddressType object.

When the latter has the value 'ipv4(1)', this object

contains the IP address of the secondary DHCP

server. It is provided by the CM to the MTA via the DHCP  
option code 122, sub-option 2, as defined in RFC 3495.

The behavior of this object when the value of  
pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'  
is not presently specified, but it may be specified  
in future versions of this MIB module.

If there was no secondary DHCP server provided in DHCP  
Option 122, sub-option 2, this object must return the value  
0.0.0.0."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 3 }

pktcMtaDevDnsServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the  
PacketCable DNS servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 4 }

pktcMtaDevServerDns1 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the primary DNS server to be used by the MTA. The type of this address is determined by the value of the pktcMtaDevDnsServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the primary DNS server. As defined in RFC 2132, PacketCable-compliant MTAs receive the IP addresses of the DNS Servers in DHCP option 6. The behavior of this object when the value of pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'

is not presently specified, but it may be specified in future versions of this MIB module. If a value is written into an instance of pktcMtaDevServerDns1, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification; RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 5 }

pktcMtaDevServerDns2 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the secondary DNS server to be used by the MTA. The type of this address is determined by the value of the pktcMtaDevDnsServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the secondary DNS server. As defined in RFC 2132, PacketCable-compliant MTAs receive the IP addresses of the DNS Servers in DHCP option 6. The behavior of this object when the value of pktcMtaDevDnsServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If a value is written into an instance of  
pktcMtaDevServerDns2, the agent MUST NOT retain the  
supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 6 }

#### pktcMtaDevTimeServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object contains the Internet address type for the  
PacketCable Time servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 7 }

#### pktcMtaDevTimeServer OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object contains the Internet Address of the Time  
Server used by an S-MTA for Time Synchronization. The type  
of this address is determined by the value of the  
pktcMtaDevTimeServerAddressType object.  
When the latter has the value 'ipv4(1)', this object  
contains the IP address of the Time Server used for Time  
Synchronization.

In the case of an S-MTA, this object must be  
populated with a value other than 0.0.0.0 as obtained  
from DHCP option 4. The protocol by which the time of day  
MUST be retrieved is defined in RFC 868.

In the case of an E-MTA, this object must contain a  
value of 0.0.0.0 if the address type is 'ipv4(1)' since  
an E-MTA does not use the Time Protocol for time  
synchronization (an E-MTA uses the time retrieved by the  
DOCSIS cable modem).

The behavior of this object when the value of  
pktcMtaDevTimeServerAddressType is other than 'ipv4(1)'  
is not presently specified, but it may be specified in  
future versions of this MIB module.

If a value is written into an instance of  
pktcMtaDevTimeServer, the agent MUST NOT retain the

supplied value across MTA re-initializations or reboots."

#### REFERENCE

" RFC 868, Time Protocol;  
RFC 2131, Dynamic Host Configuration Protocol;  
RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 8 }

#### pktcMtaDevConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object specifies the MTA device configuration file information, including the access method, the server name, and the configuration file name. The value of this object is the Uniform Resource Locator (URL)

of the configuration

file for TFTP or HTTP download.

If this object value is a TFTP URL, it must be formatted as defined in RFC 3617.

If this object value is an HTTP URL, it must be formatted as defined in RFC 2616.

If the MTA SNMP Enrollment mechanism is used, then the MTA must download the file provided by the Provisioning Server

during provisioning via an SNMP SET on this object.

If the MTA SNMP Enrollment mechanism is not used, this object MUST contain the URL value corresponding to the 'siaddr' and 'file' fields received in the DHCP ACK to locate the configuration file: the 'siaddr' and 'file' fields represent the host and file of the TFTP URL, respectively. In this case, the MTA MUST return an 'inconsistentValue' error in response to SNMP SET operations.

The MTA MUST return a zero-length string if the server address (host part of the URL) is unknown.

If a value is written into an instance of pktcMtaDevConfigFile, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3617, URI Scheme for TFTP; RFC 2616, HTTP 1.1"

::= { pktcMtaDevServer 9 }

#### pktcMtaDevSnmpEntity OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object contains the FQDN of the SNMP entity of the Provisioning Server. When the MTA SNMP Enrollment Mechanism is used, this object represents the server that the MTA communicates with, that it receives the configuration file URL from, and that it sends the enrollment notification to. The SNMP entity is also the destination entity for all the provisioning notifications. It

may be used for post-provisioning

SNMP operations. During the provisioning phase, this SNMP entity FQDN is supplied to the MTA via DHCP option 122, sub-option 3, as defined in RFC 3495. The MTA must resolve the FQDN value before its very first network interaction with the SNMP entity during the provisioning phase."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 10 }

pktcMtaDevProvConfigHash OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(20))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object contains the hash value of the contents of the configuration file.

The authentication algorithm is Secure Hashing Algorithm 1 (SHA-1), and the length is 160 bits. The hash calculation MUST follow the requirements defined in the

PacketCable Security Specification. When the MTA SNMP Enrollment mechanism is used, this hash value is calculated and sent to the MTA prior to sending the config file. This object value is then provided by the Provisioning server via an SNMP SET operation. When the MTA SNMP Enrollment mechanism is not in use, the hash value is provided in the configuration file itself, and it is also calculated by the MTA. This object value MUST represent the hash value calculated by the MTA. When the MTA SNMP Enrollment mechanism is not in use, the

MTA must reject all SNMP SET operations on this object and return an 'inconsistentValue' error.

If a value is written into an instance of pktcMtaDevProvConfigHash, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;

PacketCable Security Specification."

::= { pktcMtaDevServer 11 }

pktcMtaDevProvConfigKey OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(32))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object contains the key used to encrypt/decrypt the configuration file when secure SNMPv3 provisioning is used.

The value of this object is provided along with the configuration file information (pktcMtaDevConfigFile) and hash (pktcMtaDevProvConfigHash) by the Provisioning Server via SNMP SET once the configuration file has been created, as defined by the PacketCable Security specification.

The privacy algorithm is defined by the pktcMtaDevProvConfigEncryptAlg MIB object. The MTA requirements related to the privacy algorithm are defined in the PacketCable Security Specification.

If this object is set at any other provisioning step than that allowed by the PacketCable MTA Device

Provisioning Specification, the MTA SHOULD return an 'inconsistentValue' error.

This object must not be used in non secure provisioning mode. In non-secure provisioning modes, the MTA SHOULD return an 'inconsistentValue' in response to SNMP SET operations, and the MTA SHOULD return a zero-length string in response to SNMP GET operations.

If a value is written into an instance of pktcMtaDevProvConfigKey, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE



" PacketCable MTA Device Provisioning Specification;  
PacketCable Security Specification."  
::= { pktcMtaDevServer 12 }

pktcMtaDevProvConfigEncryptAlg OBJECT-TYPE

SYNTAX PktcMtaDevProvEncryptAlg

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines the encryption algorithm used for  
privacy protection of the MTA Configuration File content."

DEFVAL { des64CbcMode }

::= { pktcMtaDevServer 13 }

pktcMtaDevProvSolicitedKeyTimeout OBJECT-TYPE

SYNTAX Unsigned32 (0..180)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines a Kerberos Key Management timer on the  
MTA. It is the time period during which the MTA saves the  
nonce and Server Kerberos Principal Identifier to match an  
AP Request and its associated AP Reply response from the  
Provisioning Server.

After the timeout has been exceeded, the client discards  
this (nonce, Server Kerberos Principal Identifier) pair,  
after which it will no longer accept a matching AP Reply.

This timer only applies when the Provisioning Server  
initiated key management for SNMPv3 (with a  
Wake

Up message).

If this object is set to a zero value, the MTA MUST return  
an 'inconsistentValue' in response to SNMP SET operations.

This object should not be used in non-secure provisioning  
modes. In non-secure provisioning modes, the MTA MUST  
return an 'inconsistentValue' in response to SNMP SET  
operations, and the MTA MUST return a zero value in

response to SNMP GET operations.

If a value is written into an instance of  
pktcMtaDevProvSolicitedKeyTimeout, the agent MUST NOT  
retain the supplied value across MTA re-initializations  
or reboots."

DEFVAL { 3 }

```
::= { pktcMtaDevServer 14 }
```

```
-----  
--  
-- Unsolicited key updates are retransmitted according to an  
-- exponential back-off mechanism using two timers and a maximum  
-- retry counter for AS replies.  
-- The initial retransmission timer value is the nominal  
timer  
-- value (pktcMtaDevProvUnsolicitedKeyNomTimeout). The  
-- retransmissions occur with an exponentially increasing interval  
-- that caps at the maximum timeout value  
-- (pktcMtaDevProvUnsolicitedKeyMaxTimeout).  
-- Retransmissions stop when the maximum retry counter is reached  
-- (pktcMtaDevProvUnsolicitedKeyMaxRetries).  
-- For example, with values of 3 seconds for the nominal  
-- timer, 100 seconds for the maximum timeout, and 8 retries max,  
-- and with an exponential value of 2, this results in  
-- retransmission intervals will be 3 s, 6 s, 12 s, 24 s, 48 s,  
-- 96 s, 100 s, and 100 s;  
-- retransmissions then stop because the maximum number of  
-- retries (8) has been reached.  
--  
-----  
--  
-- Timeouts for unsolicited key management updates are only  
-- pertinent before the first SNMPv3 message is sent between the  
-- MTA and the Provisioning Server and before the configuration  
-- file is loaded.  
--  
-----
```

```
pktcMtaDevProvUnsolicitedKeyMaxTimeout
```

```
OBJECT-TYPE
```

```
SYNTAX Unsigned32 (0..600)
```

```
UNITS "seconds"
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
" This object defines the timeout value that applies to  
an MTA-initiated AP-REQ/REP key management exchange with  
the Provisioning Server in SNMPv3 provisioning.  
It is the maximum timeout value, and it may not be exceeded  
in the exponential back-off algorithm. If the DHCP option
```

```
code 122, sub-option 5, is provided to the MTA, it
```

overwrites this value.

In non-secure provisioning modes, the MTA MUST return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."

DEFVAL {600}

::= { pktcMtaDevServer 15 }

pktcMtaDevProvUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (0..600)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object defines the starting value of the timeout for the AP-REQ/REP Backoff and Retry mechanism with exponential timeout in SNMPv3 provisioning. If the DHCP option code 122, sub-option 5, is provided the MTA, it overwrites this value. In non-secure provisioning modes, the MTA MUST return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."

DEFVAL {3}

::= { pktcMtaDevServer 16}

pktcMtaDevProvUnsolicitedKeyMaxRetries OBJECT-TYPE

SYNTAX Unsigned32 (0..32)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a retry counter that applies to an MTA-initiated AP-REQ/REP key management exchange with the Provisioning Server in secure SNMPv3 provisioning. It is the maximum

number of retries before the MTA stops

attempting to establish a Security Association with Provisioning Server.

If the DHCP option code 122, sub-option 5, is provided to the MTA, it overwrites this value.

If this object is set to a zero value, the MTA MUST return an 'inconsistentValue' in response to SNMP SET operations.

In non-secure provisioning modes, the MTA MUST return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."

DEFVAL {8}

::= { pktcMtaDevServer 17 }

pktcMtaDevProvKerbRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the name of the associated provisioning Kerberos realm acquired during the MTA4 provisioning step (DHCP Ack) for SNMPv3 provisioning. The uppercase ASCII representation

of the associated

Kerberos realm name MUST be used by both the Manager (SNMP entity) and the MTA.

The Kerberos realm name for the Provisioning Server is supplied to the MTA via DHCP option code 122, sub-option 6, as defined in RFC 3495. In secure SNMP provisioning mode, the value of the Kerberos realm name for the Provisioning Server supplied in the MTA configuration file must match the value supplied in the DHCP option code 122, sub-option 6. Otherwise, the value of this object must contain the value supplied in DHCP Option 122, sub-option 6."

REFERENCE

" PacketCable MTA Device Provisioning Specification; RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 18 }

pktcMtaDevProvState OBJECT-TYPE

SYNTAX INTEGER {

operational (1),

waitingForSnmpSetInfo

(2),

waitingForTftpAddrResponse (3),

waitingForConfigFile (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object defines the MTA provisioning state.

If the state is:

'operational(1)', the device has completed the loading

and processing of the initialization parameters.

'waitingForSnmpSetInfo(2)', the device is waiting on its configuration file download access information.

Note that this state is only reported when the MTA

SNMP enrollment mechanism is used.

'waitingForTftpAddrResponse(3)', the device has sent a DNS request to resolve the server providing the configuration file, and it is awaiting for a response.

Note that this state is only reported when the MTA SNMP enrollment mechanism is used.

'waitingForConfigFile(4)', the device has sent a request via TFTP or HTTP for the download of its configuration file, and it is awaiting for a response or the file download is in progress."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification, PacketCable Security Specification."

::= { pktcMtaDevServer 19 }

--

-- The following object group describes the security objects.

--

pktcMtaDevManufacturerCertificate OBJECT-TYPE  
SYNTAX DocsX509ASN1DEREncodedCertificate  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

" This object contains the MTA Manufacturer Certificate. The object value must be the ASN.1 DER encoding of the MTA manufacturer's X.509 public key certificate. The MTA Manufacturer Certificate is issued to each MTA manufacturer and is installed into each MTA at the time of manufacture or with a secure code download. The specific requirements

related to this certificate are defined in the PacketCable or IPCablecom Security specifications."

#### REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 1 }

pktcMtaDevCertificate OBJECT-TYPE

SYNTAX DocsX509ASN1DEREncodedCertificate

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA Device Certificate.  
The object value must be the ASN.1 DER encoding of the  
MTA's X.509 public-key certificate issued by the  
manufacturer and installed into the MTA at the time of

manufacture or with a secure code download.

This certificate contains the MTA MAC address. The  
specific requirements related to this certificate are  
defined in the PacketCable or IPCablecom Security  
specifications."

REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 2 }

pktcMtaDevCorrelationId OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a correlation ID, an arbitrary value  
generated by the MTA that will be exchanged as part of the  
device capability data to the Provisioning Application.  
This random value is used as an identifier to correlate  
related events in the MTA provisioning sequence.  
This value is intended for use only during the MTA  
initialization and configuration file download."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevSecurity 3 }

pktcMtaDevTelephonyRootCertificate OBJECT-TYPE

SYNTAX DocsX509ASN1DEREncodedCertificate

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the telephony Service Provider Root  
certificate. The object value is the ASN.1 DER encoding of  
the IP Telephony Service Provider

Root X.509 public key

certificate. This certification is stored in the MTA

non-volatile memory and can be updated with a secure code download. This certificate is used to validate the initial AS Reply received by the MTA from the Key Distribution Center (KDC) during the MTA initialization. The specific requirements related to this certificate are defined in the PacketCable or IPCablecom Security specifications."

#### REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 4 }

-----

--

-- Informative Procedures for Setting up Security Associations

--

-- A Security Association may be set up either via configuration or  
-- via NCS signaling.

--

-- I. Security association setup via configuration.

--

-- The realm must be configured first. Associated with the realm  
-- is a KDC. The realm table (pktcMtaDevRealmTable)  
-- indicates

-- information about the realm (e.g., name, organization name) and  
-- parameters associated with KDC communications (e.g., grace  
-- periods, AS Request/AS Reply adaptive back-off parameters).

--

-- Once the realm is established, one or more CMS(es) may be  
-- defined in the realm. Associated with each CMS  
-- entry in the pktcMtaDevCmsTable is an explicit reference  
-- to a Realm via the realm name (pktcMtaDevCmsKerbRealmName),  
-- the FQDN of the CMS, and parameters associated with IPSec  
-- key management with the CMS (e.g., clock skew, AP Request/  
-- AP Reply adaptive back-off parameters).

--

-- II. Security association setup via NCS signaling.

--

-- The procedure of establishing the Security Associations  
-- for NCS signaling is described in the PacketCable Security  
-- specification.

-- It involves the analysis of the pktcNcsEndPntConfigTable row  
-- for the corresponding endpoint number and the correlation of  
-- the CMS FQDN from this row  
-- with the CMS Table and

-- consequently, with the Realm Table. Both of these tables

-- are defined below. The pktcNcsEndPntConfigTable is defined in

```
-- the IP over Cable Data Network (IPCDN)
-- NCS Signaling MIB [NCSSIGMIB].
--
-- III. When the MTA receives wake-up or re-key messages from a
-- CMS, it performs key management based on the corresponding
-- entry in the CMS table. If the matching CMS entry does not
-- exist, it must ignore the wake-up or re-key messages.
--
--=====
```

```
-- pktcMtaDevRealmTable
--
-- The pktcMtaDevRealmTable shows the KDC realms. The table is
-- indexed with pktcMtaDevRealmIndex. The Realm Table contains the
-- pktcMtaDevRealmName in conjunction with any server that needs
-- a Security Association with the MTA. Uppercase must be used
-- to compare the pktcMtaDevRealmName content.
--
```

```
--=====
```

pktcMtaDevRealmAvailSlot

OBJECT-TYPE

SYNTAX Unsigned32 (0..64)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the index number of the first available entry in the realm table (pktcMtaDevRealmTable). If all the entries in the realm table have been assigned, this object contains the value of zero. A management station should create new entries in the realm table, using the following procedure:

First, issue a management protocol retrieval operation to determine the value of the first available index in the realm table (pktcMtaDevRealmAvailSlot).

Second, issue a management protocol SET operation to create an instance of the pktcMtaDevRealmStatus object by setting its value to 'createAndWait(5)'.

Third, if the SET operation succeeded, continue



modifying the object instances corresponding to the newly created conceptual row, without fear of collision with other management stations. When all necessary conceptual columns of the row are properly populated (via SET operations or default values), the management station may SET the pktcMtaDevRealmStatus object to 'active(1)'."

```
::= { pktcMtaDevSecurity 5 }
```

pktcMtaDevRealmTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevRealmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object contains the realm table.

The CMS table (pktcMtaDevCmsTable) and the realm table (pktcMtaDevRealmTable) are used for managing the MTA-CMS Security Associations. The realm table defines the Kerberos realms for the Application Servers (CMSes and the Provisioning Server)."

```
::= { pktcMtaDevSecurity 6 }
```

pktcMtaDevRealmEntry OBJECT-TYPE

SYNTAX

PktcMtaDevRealmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table entry object lists the MTA security parameters for a single Kerberos realm. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcMtaDevRealmIndex }

```
::= { pktcMtaDevRealmTable 1 }
```

PktcMtaDevRealmEntry ::= SEQUENCE {

pktcMtaDevRealmIndex Unsigned32,

pktcMtaDevRealmName SnmpAdminString,

pktcMtaDevRealmPkinitGracePeriod Unsigned32,

pktcMtaDevRealmTgsGracePeriod Unsigned32,

pktcMtaDevRealmOrgName LongUtf8String,

pktcMtaDevRealmUnsolicitedKeyMaxTimeout Unsigned32,

pktcMtaDevRealmUnsolicitedKeyNomTimeout Unsigned32,

pktcMtaDevRealmUnsolicitedKeyMaxRetries Unsigned32,

pktcMtaDevRealmStatus RowStatus

}

pktcMtaDevRealmIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..64)

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

" This object defines the realm table index."

::= { pktcMtaDevRealmEntry 1 }

pktcMtaDevRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object identifies the Kerberos realm name in all capitals. The MTA MUST prohibit the instantiation of any two rows with identical Kerberos realm names. The MTA MUST also verify that any search operation involving Kerberos realm names is done using the uppercase ASCII representation of the characters."

::= { pktcMtaDevRealmEntry 2 }

pktcMtaDevRealmPkinitGracePeriod OBJECT-TYPE

SYNTAX Unsigned32 (15..600)

UNITS "minutes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the PKINIT Grace Period. For the purpose of key management with Application Servers (CMSes

or

the Provisioning Server), the MTA must utilize the

PKINIT exchange to obtain Application Server tickets. The MTA may utilize the PKINIT exchange to obtain Ticket Granting Tickets (TGTs), which are then used to obtain Application Server tickets in a TGS exchange.

The PKINIT exchange occurs according to the current Ticket Expiration Time (TicketEXP) and on the PKINIT Grace Period (PKINITGP). The MTA MUST initiate the PKINIT exchange at the time: TicketEXP - PKINITGP."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 15 }

::= { pktcMtaDevRealmEntry 3 }

pktcMtaDevRealmTgsGracePeriod OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "minutes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the Ticket Granting Server Grace Period (TGSGP). The Ticket Granting Server (TGS) Request/Reply exchange may be performed

by the MTA

on demand whenever an Application Server ticket is needed to establish security parameters. If the MTA possesses a ticket that corresponds to the Provisioning Server or a CMS that currently exists in the CMS table, the MTA MUST initiate the TGS Request/Reply exchange at the time: TicketEXP - TGSGP."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 10 }

::= { pktcMtaDevRealmEntry 4 }

pktcMtaDevRealmOrgName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the X.500 organization name attribute as defined in the subject name of the service provider certificate."

REFERENCE

" PacketCable Security Specification;  
RFCs 3280 and 4630, Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile"

::= { pktcMtaDevRealmEntry 5 }

pktcMtaDevRealmUnsolicitedKeyMaxTimeout OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the maximum time the MTA will attempt to perform the exponential back-off algorithm. This timer only applies when the MTA initiated key

management. If the DHCP option code 122, sub-option 4, is provided to the MTA, it overwrites this value.

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).

Retransmissions stop when the maximum retry counter is reached (pktcMtaDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, retransmission intervals will be 3 s, 6 s, 12 s, 20 s, and 20 s, and retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 100 }

::= { pktcMtaDevRealmEntry 6 }

pktcMtaDevRealmUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..600000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object specifies the initial timeout value for the AS-REQ/AS-REP exponential back-off and retry mechanism. If the DHCP option code 122, sub-option 4, is provided to the MTA, it

overwrites this value.

This value should account for the average roundtrip time between the MTA and the KDC, as well as the processing delay on the KDC.

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing

interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout). Retransmissions stop when the maximum retry counter is reached (pktcMatDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, in retransmission intervals will be 3 s, 6 s,

12 s, 20 s, and 20 s; retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 3000 }

::= { pktcMtaDevRealmEntry 7 }

pktcMtaDevRealmUnsolicitedKeyMaxRetries OBJECT-TYPE

SYNTAX Unsigned32 (0..1024)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object specifies the maximum number of retries the MTA attempts to obtain a ticket from the KDC.

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).

Retransmissions stop when the maximum retry counter is reached (pktcMatDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, retransmission intervals will be 3 s, 6 s, 12 s, 20 s, and 20 s; retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 5 }

::= { pktcMtaDevRealmEntry 8 }

pktcMtaDevRealmStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the row status of this realm in the realm table (pktcMtaDevRealmTable).

An entry in this table is not qualified for activation until the object instances of all corresponding columns have been initialized, either by default values, or

via

explicit SET operations. Until all object instances in this row are initialized, the status value for this realm must be 'notReady(3)'.  
In particular, two columnar objects must be explicitly SET: the realm name (pktcMtaDevRealmName) and the organization name (pktcMtaDevRealmOrgName). Once these 2 objects have been set and the row status is SET to 'active(1)', the MTA MUST NOT allow any modification of these 2 object values.

The value of this object has no effect on whether other columnar objects in this row can be modified."

::= { pktcMtaDevRealmEntry 9 }

-----

-----

--

-- The CMS table, pktcMtaDevCmsTable

--

-- The CMS table and the realm table (pktcMtaDevRealmTable) are used

-- for managing the MTA signaling security. The CMS table defines

-- the CMSes the MTA is allowed to communicate with and contains

-- the

parameters describing the SA establishment between the MTA

-- and a CMS.

-- The CMS table is indexed by pktcMtaDevCmsIndex. The table

-- contains the CMS FQDN (pktcMtaDevCmsFQDN) and the associated

-- Kerberos realm name (pktcMtaDevCmsKerbRealmName) so that the MTA

-- can find the corresponding Kerberos realm name in the

-- pktcMtaDevRealmTable.

--

-----

pktcMtaDevCmsAvailSlot OBJECT-TYPE

SYNTAX Unsigned32 (0..128)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the index number of the first available entry in the CMS table (pktcMtaDevCmsTable). If all the entries in the CMS table have been assigned, this object contains the value of zero. A management station should create new entries in the CMS table, using the following procedure:

First, issue a management protocol retrieval operation

to determine the value of the first available index in the CMS table (pktcMtaDevCmsAvailSlot).

Second, issue a management protocol SET operation to create an instance of the pktcMtaDevCmsStatus object by setting its value to 'createAndWait(5)'.

Third, if the SET operation succeeded, continue modifying the object instances corresponding to the newly created conceptual row, without fear of collision with other management stations. When all necessary conceptual columns of the row are properly populated (via SET operations or default values), the management station may SET the pktcMtaDevCmsStatus object to 'active(1)'."

```
::= { pktcMtaDevSecurity 7 }
```

pktcMtaDevCmsTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevCmsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the CMS table.

The CMS table (pktcMtaDevCmsTable)

and the realm table

(pktcMtaDevRealmTable) are used for managing security between the MTA and CMSes. Each CMS table entry defines a CMS the managed MTA is allowed to communicate with and contains security parameters for key management with that CMS."

```
::= { pktcMtaDevSecurity 8 }
```

pktcMtaDevCmsEntry OBJECT-TYPE

SYNTAX PktcMtaDevCmsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table entry object lists the MTA key management parameters used when establishing Security Associations with a CMS. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcMtaDevCmsIndex }

::= { pktcMtaDevCmsTable 1 }

PktcMtaDevCmsEntry ::= SEQUENCE {  
pktcMtaDevCmsIndex Unsigned32,  
pktcMtaDevCmsFqdn SnmpAdminString,  
pktcMtaDevCmsKerbRealmName SnmpAdminString,  
pktcMtaDevCmsMaxClockSkew  
Unsigned32,  
pktcMtaDevCmsSolicitedKeyTimeout Unsigned32,  
pktcMtaDevCmsUnsolicitedKeyMaxTimeout Unsigned32,  
pktcMtaDevCmsUnsolicitedKeyNomTimeout Unsigned32,  
pktcMtaDevCmsUnsolicitedKeyMaxRetries Unsigned32,  
pktcMtaDevCmsIpsecCtrl TruthValue,  
pktcMtaDevCmsStatus RowStatus  
}

pktcMtaDevCmsIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..128)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the CMS table index."

::= { pktcMtaDevCmsEntry 1 }

pktcMtaDevCmsFqdn OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the CMS FQDN. The MTA must prohibit the instantiation of any two rows with identical FQDNs. The MTA must also verify that any search and/or comparison operation

involving a CMS FQDN is case

insensitive. The MTA must resolve the CMS FQDN as required by the corresponding PacketCable Specifications."

REFERENCE

" PacketCable MTA Device Provisioning Specification;

PacketCable Security Specification;

PacketCable Network-Based Call Signaling Protocol



Specification."

::= { pktcMtaDevCmsEntry 2 }

pktcMtaDevCmsKerbRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object identifies the Kerberos realm name in uppercase characters associated with the CMS defined in this

conceptual row. The object value is a reference point to the corresponding Kerberos realm name in the realm table (pktcMtaDevRealmTable)."

::= { pktcMtaDevCmsEntry 3 }

pktcMtaDevCmsMaxClockSkew OBJECT-TYPE

SYNTAX Unsigned32 (1..1800)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the maximum allowable clock skew between the MTA and the CMS defined in this row."

DEFVAL { 300 }

::= { pktcMtaDevCmsEntry 4 }

pktcMtaDevCmsSolicitedKeyTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..30000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines a Kerberos Key Management timer on the MTA. It is the time period during which the MTA saves the nonce and Server Kerberos Principal Identifier to match an AP Request and its associated AP Reply response from the CMS. This timer only applies when the CMS initiated key management (with a Wake Up message or a Rekey message)."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 1000 }

::= { pktcMtaDevCmsEntry 5 }

-----  
--

```

--
  Unsolicited key updates are retransmitted according to an
-- exponential back-off mechanism using two timers and a maximum
-- retry counter for AS replies.
-- The initial retransmission timer value is the nominal timer
-- value (pktcMtaDevCmsUnsolicitedKeyNomTimeout). The
-- retransmissions occur with an exponentially increasing interval
-- that caps at the maximum timeout value
-- (pktcMtaDevCmsUnsolicitedKeyMaxTimeout).
-- Retransmissions stop when the maximum retry counter is reached
-- (pktcMtaDevCmsUnsolicitedMaxRetries).
-- For example, with values of 3 seconds for the nominal
-- timer, 20 seconds for the maximum timeout, and 5 retries max,
-- retransmission intervals will be 3 s, 6 s, 12 s,
--
-- 20 s, and 20 s; retransmissions then stop due to the
-- maximum number of retries reached.
--
-----

```

pktcMtaDevCmsUnsolicitedKeyMaxTimeout OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the timeout value that only applies to an MTA-initiated key management exchange. It is the maximum timeout, and it may not be exceeded in the exponential back-off algorithm."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 600 }

::= { pktcMtaDevCmsEntry 6 }

pktcMtaDevCmsUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..30000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the starting value of the timeout for an MTA-initiated key management. It should account for the average roundtrip time between the MTA and the CMS and the processing time on the CMS."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 500 }

::= { pktcMtaDevCmsEntry 7 }

pktcMtaDevCmsUnsolicitedKeyMaxRetries

OBJECT-TYPE

SYNTAX Unsigned32 (0..1024)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the maximum number of retries before the MTA stops attempting to establish a Security Association with the CMS."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 5 }

::= { pktcMtaDevCmsEntry 8 }

pktcMtaDevCmsIpsecCtrl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies the MTA IPsec control flag. If the object value is 'true', the MTA must use Kerberos Key Management and IPsec to communicate with this CMS. If it is 'false', IPsec Signaling Security and Kerberos key management are disabled for this specific CMS."

DEFVAL { true }

::= { pktcMtaDevCmsEntry 9 }

pktcMtaDevCmsStatus OBJECT-TYPE

SYNTAX

RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the row status associated with this particular CMS in the CMS table (pktcMtaDevCmsTable).

An entry in this table is not qualified for activation until the object instances of all corresponding columns have been initialized, either by default values or via explicit SET operations. Until all object instances in this row are initialized, the status value for this realm

must be 'notReady(3)'.  
In particular, two columnar objects must be SET: the  
CMS FQDN (pktcMtaDevCmsFqdn) and the Kerberos realm name  
(pktcMtaDevCmsKerbRealmName). Once these 2 objects have  
been set and the row status is SET to 'active(1)', the MTA  
MUST NOT allow any modification of these 2 object values.

The value of this object has no effect on  
whether other columnar objects  
in this row can be  
modified."

::= { pktcMtaDevCmsEntry 10 }

pktcMtaDevResetKrbTickets OBJECT-TYPE

SYNTAX BITS {  
    invalidateProvOnReboot (0),  
    invalidateAllCmsOnReboot (1)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines a Kerberos Ticket Control Mask that  
instructs the MTA to invalidate the specific Application

Server Kerberos ticket(s) that are stored locally in the  
MTA NVRAM (non-volatile or persistent memory).

If the MTA does not store Kerberos tickets in NVRAM, it  
MUST ignore setting of this object and MUST report a BITS  
value of zero when the object is read.

If the MTA supports Kerberos tickets storage in NVRAM, the  
object value is encoded as follows:

- Setting the invalidateProvOnReboot bit (bit 0) to 1  
means that the MTA MUST invalidate

the Kerberos

Application Ticket(s) for the Provisioning Application  
at the next MTA reboot if secure SNMP provisioning mode  
is used. In non-secure provisioning modes, the MTA MUST  
return an 'inconsistentValue' in response to SNMP SET  
operations with a bit 0 set to 1.

- Setting the invalidateAllCmsOnReboot bit (bit 1) to 1  
means that the MTA MUST invalidate the Kerberos  
Application Ticket(s) for all CMSes currently assigned  
to the MTA endpoints.

If a value is written into an instance of  
pktcMtaDevResetKrbTickets, the agent MUST retain the  
supplied value across an MTA re-initialization or

```

    reboot."
REFERENCE
    "PacketCable Security Specification."
DEFVAL { { } }
::= { pktcMtaDevSecurity 9 }

--
-- The following group, pktcMtaDevErrors, defines an OID
-- corresponding to error conditions encountered during the MTA
-- provisioning.
--

pktcMtaDevErrorsTooManyErrors
OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION
        "This object defines the OID corresponding to the error
        condition when too many errors are encountered in the
        MTA configuration file during provisioning."
    ::= { pktcMtaDevErrors 1 }

pktcMtaDevProvisioningEnrollment NOTIFICATION-TYPE
    OBJECTS {
        sysDescr,
        pktcMtaDevSwCurrentVers,
        pktcMtaDevTypeIdentifier,
        ifPhysAddress,
        pktcMtaDevCorrelationId
    }
    STATUS    current
    DESCRIPTION
        " This INFORM notification is issued by the MTA to initiate
        the PacketCable provisioning process when the MTA SNMP
        enrollment mechanism is used.

        It contains the system description, the current software
        version, the MTA device type identifier, the MTA MAC
        address (obtained in the MTA ifTable in the ifPhysAddress
        object that corresponds to the ifIndex
        1), and a
        correlation ID."
    ::= { pktcMtaNotification 1 }

pktcMtaDevProvisioningStatus NOTIFICATION-TYPE
    OBJECTS {
        ifPhysAddress,

```

```

        pktcMtaDevCorrelationId,
        pktcMtaDevProvisioningState
    }
STATUS    current
DESCRIPTION
    " This INFORM notification may be issued by the MTA to
    confirm the completion of the PacketCable provisioning
    process, and to report its provisioning completion
    status.
    It contains the MTA MAC address (obtained in the MTA
    ifTable in the ifPhysAddress object that corresponds
    to the ifIndex 1), a correlation ID and the MTA
    provisioning state as defined in
    pktcMtaDevProvisioningState."
 ::= { pktcMtaNotification 2 }

--
-- Compliance Statements
--

pktcMtaCompliances OBJECT IDENTIFIER ::= { pktcMtaConformance 1 }
pktcMtaGroups      OBJECT IDENTIFIER ::= { pktcMtaConformance 2 }

pktcMtaBasicCompliance MODULE-COMPLIANCE
STATUS    current
DESCRIPTION
    " The compliance statement for MTA devices that implement
    PacketCable or IPCablecom requirements.

    This compliance statement applies to MTA implementations
    that support PacketCable 1.0 or IPCablecom requirements,
    which are not IPv6-capable at the time of this

    RFC publication."

MODULE -- Unconditionally mandatory groups for MTAs

MANDATORY-GROUPS {
    pktcMtaGroup,
    pktcMtaNotificationGroup
}

OBJECT pktcMtaDevDhcpServerAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
    " Support for address types other than 'ipv4(1)'

```

is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevDnsServerAddressType  
SYNTAX InetAddressType { ipv4(1) }

#### DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServerAddressType  
SYNTAX InetAddressType { ipv4(1) }

#### DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp1  
SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp2  
SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns1

SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns2

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServer

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg

SYNTAX PktcMtaDevProvEncryptAlg

DESCRIPTION

"An implementation is only required to support values of none(0) and des64Cbcmode(1).  
An IV of zero is used to encrypt in des64Cbcmode, and the length of pktcMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification.  
Other encryption types may be defined in future versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName

SYNTAX LongUtf8String (SIZE (1..384))

DESCRIPTION

"The Organization Name field in X.509 certificates can contain up to 64 UTF-8 encoded characters, as defined in RFCs 3280 and 4630. Therefore, compliant devices are only required to support Organization Name values of up to 64 UTF-8 encoded characters.  
Given that RFCs 3280 and 4630 define the UTF-8 encoding, compliant devices must support a maximum size of 384 octets for pktcMtaDevRealmOrgName. The calculation of 384 octets comes from the RFC 3629 UTF-8 encoding definition whereby the UTF-8 encoded characters are encoded as sequences of 1 to 6 octets, assuming that code points as high as 0x7fffffff might be used. Subsequent versions of Unicode and ISO 10646 have limited the upper bound to 0x10ffff.

Consequently, the current version of UTF-8, defined in RFC 3629, does not require more than four octets to encode a valid code point."

::= { pktcMtaCompliances 1 }



pktcMtaGroup OBJECT-GROUP

OBJECTS {

pktcMtaDevResetNow,  
pktcMtaDevSerialNumber,  
pktcMtaDevSwCurrentVers,  
pktcMtaDevFQDN,  
pktcMtaDevEndPntCount,

pktcMtaDevEnabled,  
pktcMtaDevProvisioningCounter,  
pktcMtaDevErrorOid,  
pktcMtaDevErrorValue,  
pktcMtaDevErrorReason,  
pktcMtaDevTypeIdentifier,  
pktcMtaDevProvisioningState,  
pktcMtaDevHttpAccess,  
pktcMtaDevCertificate,  
pktcMtaDevCorrelationId,  
pktcMtaDevManufacturerCertificate,  
pktcMtaDevDhcpServerAddressType,  
pktcMtaDevDnsServerAddressType,  
pktcMtaDevTimeServerAddressType,  
pktcMtaDevProvConfigEncryptAlg,  
pktcMtaDevServerDhcp1,  
pktcMtaDevServerDhcp2,  
pktcMtaDevServerDns1,  
pktcMtaDevServerDns2,  
pktcMtaDevTimeServer,  
pktcMtaDevConfigFile,  
pktcMtaDevSnmEntity,  
pktcMtaDevRealmPkinitGracePeriod,  
pktcMtaDevRealmTgsGracePeriod,  
pktcMtaDevRealmAvailSlot,  
pktcMtaDevRealmName,  
pktcMtaDevRealmOrgName,  
pktcMtaDevRealmUnsolicitedKeyMaxTimeout,  
pktcMtaDevRealmUnsolicitedKeyNomTimeout,  
pktcMtaDevRealmUnsolicitedKeyMaxRetries,  
pktcMtaDevRealmStatus,  
pktcMtaDevCmsAvailSlot,  
pktcMtaDevCmsFqdn,  
pktcMtaDevCmsKerbRealmName,  
pktcMtaDevCmsUnsolicitedKeyMaxTimeout,

pktcMtaDevCmsUnsolicitedKeyNomTimeout,

```

    pktcMtaDevCmsUnsolicitedKeyMaxRetries,
    pktcMtaDevCmsSolicitedKeyTimeout,
    pktcMtaDevCmsMaxClockSkew,
    pktcMtaDevCmsIpsecCtrl,
    pktcMtaDevCmsStatus,
    pktcMtaDevResetKrbTickets,
    pktcMtaDevProvUnsolicitedKeyMaxTimeout,
    pktcMtaDevProvUnsolicitedKeyNomTimeout,
    pktcMtaDevProvUnsolicitedKeyMaxRetries,
    pktcMtaDevProvKerbRealmName,
    pktcMtaDevProvSolicitedKeyTimeout,
    pktcMtaDevProvConfigHash,
    pktcMtaDevProvConfigKey,
    pktcMtaDevProvState,
    pktcMtaDevProvisioningTimer,
    pktcMtaDevTelephonyRootCertificate
}
STATUS    current
DESCRIPTION
    " A collection of objects for managing PacketCable or
      IPCablecom MTA implementations."
::= { pktcMtaGroups 1 }

```

```

pktcMtaNotificationGroup    NOTIFICATION-GROUP
NOTIFICATIONS {
    pktcMtaDevProvisioningStatus,
    pktcMtaDevProvisioningEnrollment
}
STATUS    current
DESCRIPTION
    " A collection of notifications dealing with the change of
      MTA provisioning status."
::= { pktcMtaGroups 2 }

```

```

pktcMtaBasicSmtaCompliance MODULE-COMPLIANCE
STATUS    current
DESCRIPTION
    " The compliance statement for S-MTA devices
      that implement PacketCable or IPCablecom requirements.

      This compliance statement applies to S-MTA implementations
      that support PacketCable or IPCablecom requirements,
      which are not IPv6-capable
      at the time of this
      RFC publication."

MODULE -- Unconditionally Mandatory Groups for S-MTA devices
MANDATORY-GROUPS {

```

```
    pktcMtaGroup,  
    pktcMtaNotificationGroup  
}
```

OBJECT pktcMtaDevDhcpServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevDnsServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServerAddressType

SYNTAX InetAddressType { ipv4(1)

}

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp1

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp2

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns1

SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns2

SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServer

SYNTAX InetAddress (SIZE(4))

#### DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg

SYNTAX PkctcMtaDevProvEncryptAlg

#### DESCRIPTION

"An implementation is only required to support values of none(0) and des64Cbcmode(1). An IV of zero is used to encrypt in des64Cbcmode, and the length of pktcMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification. Other encryption types may be defined in future versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName

SYNTAX LongUtf8String (SIZE (1..384))

#### DESCRIPTION

"The Organization Name field in X.509 certificates can contain up to 64 UTF-8 encoded characters, as defined in RFCs 3280 and 4630. Therefore, compliant devices are only required to support Organization Name values of up to 64 UTF-8 encoded characters. Given that RFCs 3280 and 4630 define the UTF-8 encoding, compliant devices must support a maximum size of 384 octets for pktcMtaDevRealmOrgName. The calculation of 384 octets comes from the RFC 3629 UTF-8 encoding definition whereby the UTF-8 encoded

characters

are encoded as sequences of 1 to 6 octets,  
assuming that code points as high as 0x7fffffff  
might be used. Subsequent versions of Unicode and ISO  
10646 have limited the upper bound to 0x10ffff.  
Consequently, the current version of UTF-8, defined in  
RFC 3629 does not require more than four octets to  
encode a valid code point."

MODULE DOCS-CABLE-DEVICE-MIB

MANDATORY-GROUPS {

docsDevSoftwareGroupV2

}

MODULE DOCS-IETF-BPI2-MIB

MANDATORY-GROUPS {

docsBpi2CodeDownloadGroup

}

::= { pkteMtaCompliances 2 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB

No license file was found, but licenses were detected in source scan.

SYSAPPL-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

Unsigned32, TimeTicks, Counter32, Gauge32

FROM SNMPv2-SMI

DateAndTime, TEXTUAL-CONVENTION

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF

mib-2 FROM SNMPv2-SMI;

-- System Application MIB

sysApplMIB MODULE-IDENTITY

LAST-UPDATED "9710200000Z"

ORGANIZATION "IETF Applications MIB Working Group"

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#### DESCRIPTION

"The MIB module defines management objects that model applications as collections of executables and files installed and executing on a host system. The MIB presents a system-level view of applications; i.e., objects in this MIB are limited to those attributes that can typically be obtained from the system itself without adding special instrumentation to the applications."

::= { mib-2 54 }

sysApplOBJ            OBJECT IDENTIFIER ::= { sysApplMIB 1 }  
sysApplInstalled     OBJECT IDENTIFIER ::= { sysApplOBJ 1 }  
sysApplRun            OBJECT IDENTIFIER ::= { sysApplOBJ 2 }  
sysApplMap            OBJECT IDENTIFIER ::= { sysApplOBJ 3 }  
sysApplNotifications OBJECT IDENTIFIER ::= { sysApplMIB 2 }  
sysApplConformance   OBJECT IDENTIFIER ::= { sysApplMIB 3 }

-- Textual Conventions

RunState ::= TEXTUAL-CONVENTION

STATUS    current

#### DESCRIPTION

"This TC describes the current execution state of a running application or process. The possible values are:

running(1),  
runnable(2), - waiting for a resource (CPU, etc.)  
waiting(3), - waiting for an event  
exiting(4),  
other(5)    - other invalid state"

```
SYNTAX INTEGER {
    running (1),
    runnable (2), -- waiting for resource (CPU, etc.)
    waiting (3), -- waiting for event
    exiting (4),
    other (5) -- other invalid state
}
```

LongUtf8String ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1024a"

STATUS current

DESCRIPTION

"To facilitate internationalization, this TC represents information taken from the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 character encoding scheme described in RFC 2044 [10]. For strings in 7-bit US-ASCII, there is no impact since the UTF-8 representation is identical to the US-ASCII encoding."

SYNTAX OCTET STRING (SIZE (0..1024))

Utf8String ::= TEXTUAL-CONVENTION

DISPLAY-HINT "255a"

STATUS current

DESCRIPTION

"To facilitate internationalization, this TC represents information taken from the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 character encoding scheme described in RFC 2044 [10]. For strings in 7-bit US-ASCII, there is no impact since the UTF-8 representation is identical to the US-ASCII encoding."

SYNTAX OCTET STRING (SIZE (0..255))

-- sysApplInstalled Group

-- This group provides information about application packages

-- that have been installed on the host computer. The group contains two tables. The first, the sysApplInstallPkgTable, describes the application packages, the second, the sysApplInstallElmtTable, describes the constituent elements (files and executables) which compose an application package.

--

-- In order to appear in this group, an application and its component files must be discoverable by the system itself,

-- possibly through some type of software installation mechanism  
-- or registry.

-- sysApplInstallPkgTable  
-- The system installed application packages table provides  
-- information on the software packages installed on a system.  
-- These packages may consist of many different files including  
-- executable and non-executable files.

sysApplInstallPkgTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table listing  
the software application packages  
installed on a host computer. In order to appear in  
this table, it may be necessary for the application  
to be installed using some type of software  
installation mechanism or global registry so that its  
existence can be detected by the agent implementation."

::= { sysApplInstalled 1 }

sysApplInstallPkgEntry OBJECT-TYPE

SYNTAX SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an installed application  
package."

INDEX { sysApplInstallPkgIndex }

::= { sysApplInstallPkgTable 1 }

SysApplInstallPkgEntry ::= SEQUENCE {

sysApplInstallPkgIndex Unsigned32,  
sysApplInstallPkgManufacturer Utf8String,  
sysApplInstallPkgProductName Utf8String,  
sysApplInstallPkgVersion Utf8String,  
sysApplInstallPkgSerialNumber  
Utf8String,  
sysApplInstallPkgDate DateAndTime,  
sysApplInstallPkgLocation LongUtf8String  
}

sysApplInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible



STATUS current

DESCRIPTION

"An integer used only for indexing purposes.  
Generally monotonically increasing from 1 as new applications are installed.

The value for each installed application must remain constant at least from one re-initialization of the network management entity which implements this MIB module to the next re-initialization.

The specific value is meaningful only within a given SNMP entity. A sysAppInstallPkgIndex value must not be re-used until the next agent entity restart in the event the installed application entry is deleted."

::= { sysAppInstallPkgEntry 1 }

sysAppInstallPkgManufacturer

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Manufacturer of the software application package."

::= { sysAppInstallPkgEntry 2 }

sysAppInstallPkgProductName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name assigned to the software application package by the Manufacturer."

::= { sysAppInstallPkgEntry 3 }

sysAppInstallPkgVersion OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The version number assigned to the application package by the manufacturer of the software."

::= { sysAppInstallPkgEntry 4 }

sysAppInstallPkgSerialNumber OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"The serial number of the software assigned by the manufacturer."

::= { sysApplInstallPkgEntry 5 }

## sysApplInstallPkgDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"The date and time this software application was installed on the host."

::= { sysApplInstallPkgEntry 6 }

## sysApplInstallPkgLocation OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"The complete path name where the application package is installed. For example, the value would be /opt/MyapplDir' if the application package was installed in the /opt/MyapplDir directory."

::= { sysApplInstallPkgEntry 7 }

-- sysApplInstallElmtTable

-- The table describing the individual application package

-- elements (files and executables) installed on the host computer.

## sysApplInstallElmtTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table details the individual application package elements (files and executables) which comprise the applications defined in the sysApplInstallPkg Table. Each entry in this table has an index to the sysApplInstallPkg table to identify the application package of which it is a part. As a result, there may be many entries in this table for each instance in the sysApplInstallPkg Table.

Table entries are indexed by sysApplInstallPkgIndex, sysApplInstallElmtIndex to facilitate retrieval of all elements associated with a particular installed

application package."  
::= { sysAppInstalled 2 }

sysAppInstallElmtEntry OBJECT-TYPE

SYNTAX SysAppInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row  
describing an element of an installed  
application. The element may be an executable or  
non-executable file."

INDEX {sysAppInstallPkgIndex, sysAppInstallElmtIndex}

::= { sysAppInstallElmtTable 1 }

sysAppInstallElmtEntry ::= SEQUENCE {

sysAppInstallElmtIndex Unsigned32,

sysAppInstallElmtName Utf8String,

sysAppInstallElmtType INTEGER,

sysAppInstallElmtDate DateAndTime,

sysAppInstallElmtPath LongUtf8String,

sysAppInstallElmtSizeHigh Unsigned32,

sysAppInstallElmtSizeLow Unsigned32,

sysAppInstallElmtRole BITS,

sysAppInstallElmtModifyDate DateAndTime,

sysAppInstallElmtCurSizeHigh Unsigned32,

sysAppInstallElmtCurSizeLow Unsigned32

}

sysAppInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An arbitrary integer used for indexing. The value  
of this index is unique among all rows in this table  
that exist or have existed since the last agent restart."

::= { sysAppInstallElmtEntry 1 }

sysAppInstallElmtName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this element which is contained in the  
application."

```
::= { sysAppInstallElmtEntry 2 }
```

sysAppInstallElmtType OBJECT-TYPE

```
SYNTAX INTEGER {  
    unknown(1),  
    nonexecutable(2),  
    operatingSystem(3), -- executable  
    deviceDriver(4),   -- executable  
    application(5)     -- executable  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of element that is  
part of the installed  
application."

```
::= { sysAppInstallElmtEntry 3 }
```

sysAppInstallElmtDate OBJECT-TYPE

```
SYNTAX DateAndTime
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time that this component was installed on  
the system."

```
::= { sysAppInstallElmtEntry 4 }
```

sysAppInstallElmtPath OBJECT-TYPE

```
SYNTAX LongUtf8String
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full directory path where this element is installed.  
For example, the value would be '/opt/EMPuma/bin' for an  
element installed in the directory '/opt/EMPuma/bin'.  
Most application packages include information about the  
elements contained in the package. In addition, elements  
are typically installed in sub-directories under the  
package installation directory. In cases where the  
element path names are not included

in the package

information itself, the path can usually be determined  
by a simple search of the sub-directories. If the  
element is not installed in that location and there is  
no other information available to the agent implementation,  
then the path is unknown and null is returned."

```
::= { sysAppInstallElmtEntry 5 }
```

sysApplInstallElmtSizeHigh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The installed file size in 2<sup>32</sup> byte blocks. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes, this variable would have a value of 1; for a file with a total size of 4,294,967,295 bytes this variable would be 0."

::= { sysApplInstallElmtEntry 6 }

sysApplInstallElmtSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The installed file size modulo 2<sup>32</sup> bytes. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes this variable would have a value of 0; for a file with a total size of 4,294,967,295 bytes this variable would be 4,294,967,295."

::= { sysApplInstallElmtEntry 7 }

sysApplInstallElmtRole OBJECT-TYPE

SYNTAX BITS {

executable(0),

-- An application may have one or  
-- more executable elements. The rest of the  
-- bits have no meaning if the element is not  
-- executable.

exclusive(1),

-- Only one copy of an exclusive element may be  
-- running per invocation of the running  
-- application.

primary(2),

-- The primary executable. An application can  
-- have one, and only one element that is designated  
-- as the primary executable. The execution of  
-- this element constitutes an invocation of  
-- the application. This is used by the agent  
-- implementation to determine the initiation of

- an application. The primary executable must
- remain running long enough for the agent
- implementation to detect its presence.

required(3),

- An application may have zero or more required
- elements. All required elements must be running

- in order for the application to be judged to be
- running and healthy.

dependent(4),

- An application may have

zero or more

- dependent elements. Dependent elements may
- not be running unless required elements are.

unknown(5)

- Default value for the case when an operator
- has not yet assigned one of the other values.
- When set, bits 1, 2, 3, and 4 have no meaning.

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An operator assigned value used in the determination of application status. This value is used by the agent to determine both the mapping of started processes to the initiation of an application, as well as to allow for a determination of application health. The default value, unknown(5), is used when an operator has not yet assigned one of the other values. If unknown(5) is set, bits 1 - 4 have no meaning. The possible values are:

executable(0),

An application may have one or more executable elements. The rest of the bits have no meaning if the element is not executable.

exclusive(1),

Only one copy of an exclusive element may be running per invocation of the running application.

primary(2),

The primary executable. An application can have one, and only one element that is designated as the primary executable. The execution of this element constitutes an invocation of the application. This is used by the agent implementation to determine the initiation of an application. The primary executable must

remain running long enough for  
the agent  
implementation to detect its presence.

required(3),  
An application may have zero or more required  
elements. All required elements must be running  
in order for the application to be judged to be  
running and healthy.

dependent(4),  
An application may have zero or more  
dependent elements. Dependent elements may  
not be running unless required elements are.

unknown(5)  
Default value for the case when an operator  
has not yet assigned one of the other values.  
When set, bits 1, 2, 3, and 4 have no meaning.

sysApplInstallElmtRole is used by the agent implementation  
in determining the initiation of an application, the  
current state of a running application (see  
sysApplRunCurrentState), when an application invocation is  
no longer running, and the exit status of a terminated  
application invocation (see sysApplPastRunExitState)."

```
DEFVAL { { unknown } }
::= { sysApplInstallElmtEntry 8 }
```

sysApplInstallElmtModifyDate OBJECT-TYPE

```
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
```

DESCRIPTION

"The date and time that this element was last modified.  
Modification of the sysApplInstallElmtRole columnar  
object does NOT constitute a modification of the element  
itself and should not affect the value of this object."

```
::= { sysApplInstallElmtEntry 9 }
```

sysApplInstallElmtCurSizeHigh OBJECT-TYPE

```
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
```

DESCRIPTION

"The current file size in 2<sup>32</sup> byte blocks.  
For example, for a file with a total size of 4,294,967,296  
bytes,

this variable would have a value of 1; for a file  
with a total size of 4,294,967,295 bytes this variable

would be 0."

```
::= { sysApplInstallElmtEntry 10 }
```

sysApplInstallElmtCurSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current file size modulo 2<sup>32</sup> bytes.

For example, for a file with a total size of 4,294,967,296 bytes this variable would have a value of 0; for a file with a total size of 4,294,967,295 bytes this variable would be 4,294,967,295."

```
::= { sysApplInstallElmtEntry 11 }
```

-- sysApplRun Group

-- This group models activity information for applications  
-- that have been invoked and are either currently running,  
-- or have previously run on the host system. Likewise,  
-- the individual elements of an invoked application are  
-- also modeled to show currently running processes, and  
-- processes that  
have run in the past.

-- sysApplRunTable

-- The sysApplRunTable contains the application instances  
-- which are currently running on the host. Since a single  
-- application might be invoked multiple times, an entry is  
-- added to this table for each INVOCATION of an application.  
-- The table is indexed by sysApplInstallPkgIndex, sysApplRunIndex  
-- to enable managers to easily locate all invocations of  
-- a particular application package.

sysApplRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table describes the applications which are executing on the host. Each time an application is invoked, an entry is created in this table. When an application ends, the entry is removed from this table and a corresponding entry is created in the SysApplPastRunTable.

A new entry is created in this table whenever



the agent

implementation detects a new running process that is an installed application element whose `sysApplInstallElmtRole` designates it as being the application's primary executable (`sysApplInstallElmtRole = primary(2)`).

The table is indexed by `sysApplInstallPkgIndex`, `sysApplRunIndex` to enable managers to easily locate all invocations of a particular application package."

```
::= { sysApplRun 1 }
```

`sysApplRunEntry` OBJECT-TYPE

SYNTAX `SysApplRunEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an application which is currently running on this host."

INDEX { `sysApplInstallPkgIndex`, `sysApplRunIndex` }

```
::= { sysApplRunTable 1 }
```

`SysApplRunEntry` ::= SEQUENCE {

`sysApplRunIndex` Unsigned32,

`sysApplRunStarted` DateAndTime,

`sysApplRunCurrentState`

`RunState`

}

`sysApplRunIndex` OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An arbitrary integer used only for indexing purposes. Generally monotonically increasing from 1 as new applications are started on the host, it uniquely identifies application invocations.

The numbering for this index increases by 1 for each INVOCATION of an application, regardless of which installed application package this entry represents a running instance of.

An example of the indexing for a couple of entries is shown below.

:

sysApplRunStarted.17.14  
sysApplRunStarted.17.63  
sysApplRunStarted.18.13  
:

In this example, the agent has observed 12 application

invocations when the application represented by entry 18 in the sysApplInstallPkgTable is invoked. The next invocation detected by the agent is an invocation of installed application package 17. Some time later, installed application 17 is invoked a second time.

NOTE: this index is not intended to reflect a real-time (wall clock time) ordering of application invocations; it is merely intended to uniquely identify running instances of applications. Although the sysApplInstallPkgIndex is included in the INDEX clause for this table, it serves only to ease searching of this table by installed application and does not contribute to uniquely identifying table entries."

```
::= { sysApplRunEntry 1 }
```

sysApplRunStarted OBJECT-TYPE

SYNTAX DateAndTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The date and time that the application was started."

```
::= { sysApplRunEntry 2 }
```

sysApplRunCurrentState OBJECT-TYPE

SYNTAX RunState  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The current state of the running application instance. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5). This value is based on an evaluation of the running elements of this application instance (see sysApplElmRunState) and their Roles as defined by sysApplInstallElmtRole. An agent implementation may detect that an application instance is in the process of exiting if one or more of its REQUIRED elements are no longer running. Most agent implementations will wait until a second internal poll has been completed to give the

system time to start REQUIRED elements before marking the

application instance as exiting."

::= { sysApplRunEntry 3 }

-- sysApplPastRunTable

-- The sysApplPastRunTable provides a history of applications  
-- previously run on the host computer. Entries are removed from  
-- the sysApplRunTable and corresponding entries are added to this  
-- table when an application becomes inactive. Entries remain in  
-- this table until they are aged out when either the table size  
-- reaches a maximum as determined by the sysApplPastRunMaxRows,  
-- or when an entry has aged to exceed a time limit as set by  
-- sysApplPastRunTblTimeLimit.

--

-- When aging out entries, the oldest entry, as determined by

-- the value of sysApplPastRunTimeEnded, will be removed first.

sysApplPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A history of the applications that have previously run  
on the host

computer. An entry's information is moved to

this table from the sysApplRunTable when the invoked  
application represented by the entry ceases to be running.

An agent implementation can determine that an application  
invocation is no longer running by evaluating the running  
elements of the application instance and their Roles as  
defined by sysApplInstallElmtRole. Obviously, if there  
are no running elements for the application instance,  
then the application invocation is no longer running.

If any one of the REQUIRED elements is not running,  
the application instance may be in the process of exiting.

Most agent implementations will wait until a second internal  
poll has been completed to give the system time to either  
restart partial failures or to give all elements time to  
exit. If, after the second poll, there are REQUIRED  
elements that

are not running, then the application

instance may be considered by the agent implementation  
to no longer be running.

Entries remain in the sysApplPastRunTable until they are aged out when either the table size reaches a maximum as determined by the sysApplPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplPastRunTblTimeLimit.

Entries in this table are indexed by sysApplInstallPkgIndex, sysApplPastRunIndex to facilitate retrieval of all past run invocations of a particular installed application."

::= { sysApplRun 2 }

sysApplPastRunEntry OBJECT-TYPE

SYNTAX SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an invocation of an application which was previously run and has terminated. The entry is basically copied from the sysApplRunTable

when the

application instance terminates. Hence, the entry's value for sysApplPastRunIndex is the same as its value was for sysApplRunIndex."

INDEX { sysApplInstallPkgIndex, sysApplPastRunIndex }

::= { sysApplPastRunTable 1 }

SysApplPastRunEntry ::= SEQUENCE {

sysApplPastRunIndex Unsigned32,

sysApplPastRunStarted DateAndTime,

sysApplPastRunExitState INTEGER,

sysApplPastRunTimeEnded DateAndTime

}

sysApplPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An integer matching the value of the removed sysApplRunIndex corresponding to this row."

::= { sysApplPastRunEntry 1 }

sysApplPastRunStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The date and time that the application was started."

::= { sysApplPastRunEntry 2 }

sysApplPastRunExitState OBJECT-TYPE

SYNTAX INTEGER {

complete (1), -- normal exit at sysApplRunTimeEnded

failed (2), -- abnormal exit

other (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of the application instance when it terminated.

This value is based on an evaluation of the running elements of an application and their Roles as defined by sysApplInstallElmtRole. An application instance is said to have exited in a COMPLETE state and its entry is removed from the sysApplRunTable and added to the sysApplPastRunTable when the agent detects that ALL elements of an application invocation are no longer running. Most agent implementations will wait

until a second internal poll has been completed to

give the system time to either restart partial failures or to give all elements time to exit. A failed state occurs if, after the second poll, any elements continue to run but one or more of the REQUIRED elements are no longer running. All other combinations MUST be defined as OTHER."

::= { sysApplPastRunEntry 3 }

sysApplPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The DateAndTime the application instance was determined to be no longer running."

::= { sysApplPastRunEntry 4 }

-- sysApplElmtRunTable

-- The sysApplElmtRunTable contains an entry for each process that  
-- is currently running on the host. An entry is created in  
-- this table for each process at the time it is started, and will  
-- remain in the table until the process terminates.

--

-- The table

is indexed by sysAppElmtRunInstallPkg,  
-- sysAppElmtRunInvocID, and sysAppElmtRunIndex to make it easy  
-- to locate all running elements of a particular invoked application  
-- which has been installed on the system.

#### sysAppElmtRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The table describes the processes which are currently executing on the host system. Each entry represents a running process and is associated with the invoked application of which that process is a part, if possible. This table contains an entry for every process currently running on the system, regardless of whether its 'parent' application can be determined. So, for example, processes like 'ps' and 'grep' will have entries though they are not associated with an installed application package.

Because

a running application may involve

more than one executable, it is possible to have multiple entries in this table for each application.

Entries are removed from this table when the process terminates.

The table is indexed by sysAppElmtRunInstallPkg, sysAppElmtRunInvocID, and sysAppElmtRunIndex to facilitate the retrieval of all running elements of a particular invoked application which has been installed on the system."

::= { sysAppRun 3 }

#### sysAppElmtRunEntry OBJECT-TYPE

SYNTAX SysAppElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The logical row describing a process currently running on this host. When possible, the entry is associated with the invoked application of which it is a part."

INDEX { sysAppElmtRunInstallPkg, sysAppElmtRunInvocID,  
sysAppElmtRunIndex

}

::= { sysAppElmtRunTable 1 }

```

SysAppElmtRunEntry ::= SEQUENCE {
    sysAppElmtRunInstallPkg    Unsigned32,
    sysAppElmtRunInvocID      Unsigned32,
    sysAppElmtRunIndex        Unsigned32,
    sysAppElmtRunInstallIID    Unsigned32,
    sysAppElmtRunTimeStarted   DateAndTime,
    sysAppElmtRunState        RunState,
    sysAppElmtRunName         LongUtf8String,
    sysAppElmtRunParameters   Utf8String,
    sysAppElmtRunCPU          TimeTicks,
    sysAppElmtRunMemory       Gauge32,
    sysAppElmtRunNumFiles     Gauge32,
    sysAppElmtRunUser         Utf8String
}

```

sysAppElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies the installed software package for the application of which this process

is a part.

Provided that the process's 'parent' application can be determined, the value of this object is the same value as the sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this process cannot be related back to an application, and in turn, an installed software package."

::= { sysAppElmtRunEntry 1 }

sysAppElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies the invocation of an application of which this process is a part. Provided that the 'parent' application can be determined, the value of this object

is the same value as the sysApplRunIndex for the corresponding application invocation in the sysApplRunTable.

If, however, the 'parent' application cannot be determined, the value for this object is then '0', signifying that this process cannot be related back to an invocation of an application in the sysApplRunTable."

```
::= { sysApplElmtRunEntry 2 }
```

sysApplElmtRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. A unique value for each process running on the host. Wherever possible, this should be the system's native, unique identification number."

```
::= { sysApplElmtRunEntry 3 }
```

sysApplElmtRunInstallID

OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index into the sysApplInstallElmtTable. The value of this object is the same value as the sysApplInstallElmtIndex for the application element of which this entry represents a running instance. If this process cannot be associated with an installed executable, the value should be '0'."

```
::= { sysApplElmtRunEntry 4 }
```

sysApplElmtRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

```
::= { sysApplElmtRunEntry 5 }
```

sysApplElmtRunState OBJECT-TYPE

SYNTAX RunState

MAX-ACCESS read-only



STATUS current

DESCRIPTION

"The current state of the running process. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5)."

::= { sysAppElmtRunEntry 6 }

sysAppElmtRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process. For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path is '/opt/MYYpkg/bin/myyproc'."

::= { sysAppElmtRunEntry 7 }

sysAppElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtRunEntry 8 }

sysAppElmtRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centi-seconds of the total system's CPU resources consumed by this process.

Note that

on a multi-processor system, this value may have been incremented by more than one centi-second in one centi-second of real (wall clock) time."

::= { sysAppElmtRunEntry 9 }

sysAppElmtRunMemory OBJECT-TYPE

SYNTAX Gauge32

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total amount of real system memory measured in Kbytes currently allocated to this process."

```
::= { sysAppElmtRunEntry 10 }
```

sysAppElmtRunNumFiles OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of regular files currently open by the process. Transport connections (sockets) should NOT be included in the calculation of this value, nor should operating system specific special file types."

```
::= { sysAppElmtRunEntry 11 }
```

sysAppElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The process owner's login name (e.g. root)."

```
::= { sysAppElmtRunEntry 12 }
```

-- sysAppElmtPastRunTable

-- The sysAppElmtPastRunTable maintains a history of  
-- processes which have previously executed on  
-- the host as part of an application. Upon termination  
-- of a process, the entry representing the process is removed from  
-- the sysAppElmtRunTable and a corresponding entry is created in  
-- this table provided that the process was part of an  
-- identifiable application. If the process could not be associated

-- with an invoked application, no corresponding entry is created.  
-- Hence, whereas the sysAppElmtRunTable contains an entry for  
-- every process currently executing on the system, the  
-- sysAppElmtPastRunTable only contains entries for processes  
-- that previously executed as part of an invoked application.

--

-- Entries

remain in this table until they are aged out when  
-- either the number of entries in the table reaches a  
-- maximum as determined by sysAppElmtPastRunMaxRows, or  
-- when an entry has aged to exceed a time limit as set by  
-- sysAppElmtPastRunTblTimeLimit. When aging out entries,  
-- the oldest entry, as determined by the value of  
-- sysAppElmtPastRunTimeEnded, will be removed first.

--

-- The table is indexed by sysApplInstallPkgIndex (from the

-- sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and  
-- sysApplElmtPastRunIndex to make it easy to locate all  
-- previously executed processes of a particular invoked application  
-- that has been installed on the system.

#### sysApplElmtPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The table describes the processes which have previously executed on the host system as part of an application.

Each entry represents a process which has previously executed and is associated with the invoked application of which it was a part. Because an invoked application may involve more than one executable, it is possible to have multiple entries in this table for each application invocation. Entries are added to this table when the corresponding process in the sysApplElmtRun Table terminates.

Entries remain in this table until they are aged out when either the number of entries in the table reaches a maximum as determined by sysApplElmtPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplElmtPastRunTblTimeLimit. When aging out entries, the oldest entry, as determined by the value of sysApplElmtPastRunTimeEnded, will be removed first.

The table is indexed by sysApplInstallPkgIndex (from the sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and sysApplElmtPastRunIndex to make it easy to locate all previously executed processes of a particular invoked application that has been installed on the system."

::= { sysApplRun 4 }

#### sysApplElmtPastRunEntry OBJECT-TYPE

SYNTAX SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The logical row describing a process which was previously executed on this host as part of an installed application. The entry is basically copied from the sysApplElmtRunTable when the process terminates. Hence, the entry's value for sysApplElmtPastRunIndex is the same as its value

was for sysAppElmtRunIndex. Note carefully: only those processes which could be associated with an identified application are included in this table."

```
INDEX { sysAppInstallPkgIndex,  
sysAppElmtPastRunInvocID,  
    sysAppElmtPastRunIndex }  
::= { sysAppElmtPastRunTable 1 }
```

```
SysAppElmtPastRunEntry ::= SEQUENCE {  
    sysAppElmtPastRunInvocID    Unsigned32,  
    sysAppElmtPastRunIndex      Unsigned32,  
    sysAppElmtPastRunInstallID  Unsigned32,  
    sysAppElmtPastRunTimeStarted DateAndTime,  
    sysAppElmtPastRunTimeEnded  DateAndTime,  
    sysAppElmtPastRunName       LongUtf8String,  
    sysAppElmtPastRunParameters Utf8String,  
    sysAppElmtPastRunCPU        TimeTicks,  
    sysAppElmtPastRunMemory     Unsigned32,  
    sysAppElmtPastRunNumFiles   Unsigned32,  
    sysAppElmtPastRunUser       Utf8String  
}
```

sysAppElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies

the invocation of an application of which

the process represented by this entry was a part.

The value of this object is the same value as the sysAppRunIndex for the corresponding application invocation in the sysAppRunTable. If the invoked application as a whole has terminated, it will be the same as the sysAppPastRunIndex."

```
::= { sysAppElmtPastRunEntry 1 }
```

sysAppElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An integer assigned by the agent equal to the corresponding sysAppElmtRunIndex which was removed from the sysAppElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by  
sysAppElmtPastRunInvocID, sysAppElmtPastRunIndex.

The possibility  
exists, though unlikely, of a  
collision occurring by a new entry which was run  
by the same invoked application (InvocID), and  
was assigned the same process identification number  
(ElmtRunIndex) as an element which was previously  
run by the same invoked application.

Should this situation occur, the new entry replaces  
the old entry.

See Section: 'Implementation Issues -  
sysAppElmtPastRunTable Entry Collisions' for the  
conditions that would have to occur in order for a  
collision to occur."

```
::= { sysAppElmtPastRunEntry 2 }
```

sysAppElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index into the installed element table. The  
value of this object is the same value as the  
sysAppInstallElmtIndex for the application element

of which this entry represents a previously executed  
process."

```
::= { sysAppElmtPastRunEntry 3 }
```

sysAppElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

```
::= { sysAppElmtPastRunEntry 4 }
```

sysAppElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process ended."

::= { sysAppElmtPastRunEntry 5 }

sysAppElmtPastRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process.  
For example, '/opt/MYYpkg/bin/myyproc' would  
be returned for process 'myyproc' whose execution  
path was '/opt/MYYpkg/bin/myyproc'."

::= { sysAppElmtPastRunEntry 6 }

sysAppElmtPastRunParameters

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtPastRunEntry 7 }

sysAppElmtPastRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last known number of centi-seconds of the total  
system's CPU resources consumed by this process.  
Note that on a multi-processor system, this value may  
increment by more than one centi-second in one  
centi-second of real (wall clock) time."

::= { sysAppElmtPastRunEntry 8 }

sysAppElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last known total amount of real system memory  
measured in Kbytes allocated to this process before it  
terminated."

::= { sysAppElmtPastRunEntry 9 }

sysAppElmtPastRunNumFiles OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The last known number of files open by the process before it terminated. Transport connections (sockets) should NOT be included in the calculation of this value."  
::= { sysAppElmtPastRunEntry 10 }

sysAppElmtPastRunUser OBJECT-TYPE

SYNTAX Utf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The process owner's login name (e.g. root)."  
::= { sysAppElmtPastRunEntry 11 }

-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The maximum number of entries allowed in the sysApplPastRunTable.

Once the number of rows in

the sysApplPastRunTable reaches this value, the management subsystem will remove the oldest entry in the table to make room for the new entry to be added. Entries will be removed on the basis of oldest sysApplPastRunTimeEnded value first.

This object may be used to control the amount of system resources that can be used for sysApplPastRunTable entries. A conforming implementation should attempt to support the default value, however, a lesser value may be necessary due to implementation-dependent issues and resource availability."

DEFVAL { 500 }  
::= { sysApplRun 5 }

sysApplPastRunTableRemItems OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"A counter of the number of entries removed from the sysApplPastRunTable because of table size limitations

as set in sysApplPastRunMaxRows. This counter is the number of entries the management subsystem has had to remove in order to make room for new entries (so as not to exceed the limit set by sysApplPastRunMaxRows) since the last initialization of the management subsystem."

::= { sysApplRun 6 }

#### sysApplPastRunTblTimeLimit OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The maximum time in seconds which an entry in the sysApplPastRunTable may exist before it is removed. Any entry that is older than this value will be removed (aged out) from the table.

Note that an entry may be aged out prior to reaching this time limit if it is the oldest entry in the table and must be removed to make space for a new entry so as to not exceed sysApplPastRunMaxRows."

DEFVAL { 7200 }

::= { sysApplRun 7 }

#### sysApplElemPastRunMaxRows OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The maximum number of entries allowed in the sysApplElmtPastRunTable. Once the number of rows in the sysApplElmtPastRunTable reaches this value, the management subsystem will remove the oldest entry to make room for the new entry to be added. Entries will be removed on the basis of oldest sysApplElmtPastRunTimeEnded value first. This object may be used to control the amount of system resources that can be used for sysApplElemPastRunTable entries. A conforming implementation should attempt to support the default value, however, a lesser value may be necessary due to implementation-dependent issues and resource availability."

DEFVAL



```
{ 500 }  
::= { sysApplRun 8 }
```

sysApplElemPastRunTableRemItems OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION
```

"A counter of the number of entries removed from the sysApplElemPastRunTable because of table size limitations as set in sysApplElemPastRunMaxRows. This counter is the number of entries the management subsystem has had to remove in order to make room for new entries (so as not to exceed the limit set by sysApplElemPastRunMaxRows) since the last initialization of the management subsystem."

```
::= { sysApplRun 9 }
```

sysApplElemPastRunTblTimeLimit OBJECT-TYPE

```
SYNTAX Unsigned32 (0..'ffffff'h)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"The maximum time in seconds which an entry in the sysApplElemPastRunTable may exist before it is removed.

Any entry that is older than this value will be removed (aged out) from the table.

Note that an entry may be aged out prior to reaching this time limit if it is the oldest entry in the table and must be removed to make space for a new entry so as to not exceed sysApplElemPastRunMaxRows."

```
DEFVAL { 7200 }  
::= { sysApplRun 10 }
```

sysApplAgentPollInterval OBJECT-TYPE

```
SYNTAX Unsigned32 (0..'ffffff'h)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"The minimum interval in seconds that the management subsystem implementing this MIB will poll the status of the managed resources. Because of the non-trivial effort involved in polling the managed resources, and because the method for obtaining the status of the managed resources is implementation-dependent,

a conformant implementation  
may chose a lower bound  
greater than 0.

A value of 0 indicates that there is no delay  
in the passing of information from the managed  
resources to the agent."

DEFVAL { 60 }  
 ::= { sysApplRun 11 }

```
-- sysApplMap Group
-- This group contains a table, the sysApplMapTable,
-- whose sole purpose is to provide a 'backwards'
-- mapping so that, given a known sysApplElmtRunIndex
-- (process identification number), the corresponding invoked
-- application (sysApplRunIndex), installed element
-- (sysApplInstallElmtIndex), and installed application
-- package (sysApplInstallPkgIndex) can be quickly determined.
--
-- The table will contain one entry for each process
-- currently running on the system.
--
-- A backwards mapping is extremely useful since the tables
-- in this MIB module are typically indexed with the
-- installed application package (sysApplInstallPkgIndex)
-- as the primary key, and on down
as required by the
-- specific table, with the process ID number (sysApplElmtRunIndex)
-- being the least significant key.
--
-- It is expected that management applications will use
-- this mapping table by doing a 'GetNext' operation with
-- the known process ID number (sysApplElmtRunIndex) as the partial
-- instance identifier. Assuming that there is an entry for
-- the process, the result should return a single columnar value,
-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,
-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the
-- instance identifier for the returned MIB object value.
--
-- NOTE: if the process can not be associated back to an
-- invoked application installed on the system, then the
-- value returned for the columnar value sysApplMapInstallPkgIndex
-- will be '0' and the instance portion of the object-identifier
-- will be the process ID number (sysApplElmtRunIndex) followed
-- by 0.0.
```

sysApplMapTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The sole purpose of this table is to provide a 'backwards' mapping so that, given a known sysApplElmtRunIndex (process identification number), the corresponding invoked application (sysApplRunIndex), installed element (sysApplInstallElmtIndex), and installed application package (sysApplInstallPkgIndex) can be quickly determined.

This table will contain one entry for each process that is currently executing on the system.

It is expected that management applications will use this mapping table by doing a 'GetNext' operation with the known process ID number (sysApplElmtRunIndex) as the partial instance identifier. Assuming that there is an entry for the process, the result should return a single columnar

value, the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex, sysApplRunIndex, and sysApplInstallElmtIndex contained in the instance identifier for the returned MIB object value.

NOTE: if the process can not be associated back to an invoked application installed on the system, then the value returned for the columnar value sysApplMapInstallPkgIndex will be '0' and the instance portion of the object-identifier will be the process ID number (sysApplElmtRunIndex) followed by 0.0."

::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE

SYNTAX SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A logical row representing a process currently running on the system. This entry provides the index mapping from process identifier, back to the invoked application, installed element, and finally, the installed application

package. The entry includes only one accessible columnar object, the sysApplMapInstallPkgIndex, but the

invoked application and installed element can be determined from the instance identifier since they form part of the index clause."

```
INDEX { sysAppElmtRunIndex, sysAppElmtRunInvocID,  
        sysAppMapInstallElmtIndex }  
::= { sysAppMapTable 1 }
```

```
SysAppMapEntry ::= SEQUENCE {  
    sysAppMapInstallElmtIndex Unsigned32,  
    sysAppMapInstallPkgIndex Unsigned32  
}
```

sysAppMapInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index into the sysAppInstallElmtTable. The value of this object is the same value as the sysAppInstallElmtIndex for the application element of which this entry represents a running instance.

If this

process cannot be associated to an installed executable, the value should be '0'."

```
::= { sysAppMapEntry 1 }
```

sysAppMapInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object identifies the installed software package for the application of which this process is a part. Provided that the process's 'parent' application can be determined, the value of this object is the same value as the sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this

process cannot be related back to an application, and in turn, an installed software package."

```
::= { sysAppMapEntry 2 }
```

```

-- Conformance Macros
sysApplMIBCompliances OBJECT IDENTIFIER ::= { sysApplConformance 1 }
sysApplMIBGroups      OBJECT IDENTIFIER ::= { sysApplConformance 2 }

sysApplMIBCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "Describes the requirements for conformance to
        the System Application MIB"
    MODULE -- this module
        MANDATORY-GROUPS { sysApplInstalledGroup,
                            sysApplRunGroup, sysApplMapGroup }
    ::= { sysApplMIBCompliances 1 }

sysApplInstalledGroup OBJECT-GROUP
    OBJECTS { sysApplInstallPkgManufacturer,
              sysApplInstallPkgProductName,
              sysApplInstallPkgVersion,
              sysApplInstallPkgSerialNumber,
              sysApplInstallPkgDate,
              sysApplInstallPkgLocation,
              sysApplInstallElmtName,
              sysApplInstallElmtType,
              sysApplInstallElmtDate,
              sysApplInstallElmtPath,
              sysApplInstallElmtSizeHigh,
              sysApplInstallElmtSizeLow,
              sysApplInstallElmtRole,
              sysApplInstallElmtModifyDate,
              sysApplInstallElmtCurSizeHigh,
              sysApplInstallElmtCurSizeLow }
    STATUS current
    DESCRIPTION
        "The system application installed group contains
        information about applications and their constituent
        components which have been installed on the host system."
    ::= { sysApplMIBGroups 1 }

sysApplRunGroup OBJECT-GROUP
    OBJECTS { sysApplRunStarted,
              sysApplRunCurrentState,
              sysApplPastRunStarted,
              sysApplPastRunExitState,
              sysApplPastRunTimeEnded,
              sysApplElmtRunInstallID,
              sysApplElmtRunTimeStarted,

```

```
sysAppElmtRunState,  
  sysAppElmtRunName,  
sysAppElmtRunParameters,  
sysAppElmtRunCPU,  
sysAppElmtRunMemory,  
sysAppElmtRunNumFiles,  
sysAppElmtRunUser,  
sysAppElmtPastRunInstallID,  
sysAppElmtPastRunTimeStarted,  
sysAppElmtPastRunTimeEnded,  
sysAppElmtPastRunName,  
sysAppElmtPastRunParameters,  
sysAppElmtPastRunCPU,  
sysAppElmtPastRunMemory,  
sysAppElmtPastRunNumFiles,  
sysAppElmtPastRunUser,  
sysAppPastRunMaxRows,  
sysAppPastRunTableRemItems,  
sysAppPastRunTblTimeLimit,  
sysAppElemPastRunMaxRows,  
sysAppElemPastRunTableRemItems,  
sysAppElemPastRunTblTimeLimit,  
sysAppAgentPollInterval }
```

STATUS current

DESCRIPTION

"The system application

run group contains information

about applications and associated elements which have  
run or are currently running on the host system."

::= { sysAppMIBGroups 2 }

sysAppMapGroup OBJECT-GROUP

OBJECTS { sysAppMapInstallPkgIndex }

STATUS current

DESCRIPTION

"The Map Group contains a single table, sysAppMapTable,  
that provides a backwards mapping for determining the  
invoked application, installed element, and installed  
application package given a known process identification  
number."

::= { sysAppMIBGroups 3 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-  
MIB

No license file was found, but licenses were detected in source scan.

SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,  
OBJECT-IDENTITY,  
snmpModules FROM SNMPv2-SMI  
TEXTUAL-CONVENTION FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY

LAST-UPDATED "200210140000Z"  
ORGANIZATION "SNMPv3 Working Group"  
CONTACT-INFO "WG-EMail: snmpv3@lists.tislabs.com  
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"

DESCRIPTION "The SNMP Management Architecture MIB

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"

REVISION "200210140000Z" -- 14 October 2002

DESCRIPTION "Changes in this revision:

- Updated various administrative information.
- Corrected some typos.
- Corrected typo in description of SnmpEngineID that led to range overlap for 127.
- Changed '255a' to '255t' in definition of SnmpAdminString to align with current SMI.
- Reworded 'reserved' for value zero in DESCRIPTION of SnmpSecurityModel.
- The algorithm for allocating security models should give

256 per enterprise block, rather than 255.

- The example engine ID of 'abcd' is not legal. Replaced with '800002b804616263'H based on example enterprise 696, string 'abc'.
- Added clarification that engineID should persist across re-initializations.

This revision published as RFC 3411.

"

REVISION "199901190000Z" -- 19 January 1999

DESCRIPTION "Updated editors' addresses, fixed typos.

Published as RFC 2571.

"

REVISION "199711200000Z" -- 20 November 1997

DESCRIPTION "The initial version, published in RFC 2271.

"

::= { snmpModules 10 }

-- Textual Conventions used in the SNMP Management Architecture \*\*\*

SnmpEngineID ::= TEXTUAL-CONVENTION



STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier.

Objects of this type are for identification, not for addressing, even though it is possible that an address may have been used in the generation of a specific value.

The value for this object may not be all zeros or all 'ff'H or the empty (zero length) string.

The initial value for this object may be configured via an operator console entry or via an algorithmic function. In the latter case, the following example algorithm is recommended.

In cases where there are multiple engines on the same system, the use of this algorithm is NOT appropriate, as it would result in all of those engines ending up with the same ID value.

1) The very first bit is used to indicate how the

rest of the data is composed.

0 - as defined by enterprise using former methods that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3 below.

Note that this allows existing uses of the engineID (also known as AgentID [RFC1910]) to co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The remaining eight octets

are determined via

one or more enterprise-specific methods. Such methods must be designed so as to maximize the possibility that the value of this object will be unique in the agent's administrative domain. For example, it may be the IP address of the SNMP entity, or the MAC address of one of the interfaces, with each address suitably padded with random octets. If multiple methods are defined, then it is recommended that the first octet indicate the method being used and the remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The very first bit is set to 1. For example, the above value for Acme Networks now changes to be '800002b8'H.

The fifth octet indicates how the rest (6th and following octets) are formatted. The values for the fifth octet are:

- 0 - reserved, unused.
- 1 - IPv4 address (4 octets)  
lowest non-special IP address
- 2 - IPv6 address (16 octets)  
lowest non-special IP address
- 3 - MAC address (6 octets)  
lowest IEEE MAC address, canonical  
order
- 4 - Text, administratively assigned  
Maximum remaining length 27

5 - Octets, administratively assigned  
Maximum remaining length 27

6-127 - reserved, unused

128-255 - as defined by the enterprise  
Maximum remaining length 27

"

SYNTAX OCTET STRING (SIZE(5..32))

SnmSecurityModel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An identifier that uniquely identifies a Security Model of the Security Subsystem within this SNMP Management Architecture.

The values for securityModel are allocated as follows:

- The zero value does not identify any particular security model.

- Values between 1 and 255, inclusive,

are reserved

- for standards-track Security Models and are managed by the Internet Assigned Numbers Authority (IANA).

- Values greater than 255 are allocated to enterprise-specific Security Models. An enterprise-specific securityModel value is defined to be:

enterpriseID \* 256 + security model within enterprise

For example, the fourth Security Model defined by the enterprise whose enterpriseID is 1 would be 259.

This scheme for allocation of securityModel values allows for a maximum of 255 standards-based Security Models, and for a maximum of 256 Security Models per enterprise.

It is believed that the assignment of new securityModel values will be rare in practice

because the larger the number of simultaneously utilized Security Models, the larger the chance that interoperability will suffer.

Consequently, it is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard

securityModels. This limits the ability to define new proprietary implementations of Security Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded

form, the securityModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of securityModel defined for use with SNMP or reserved for use with supporting MIB objects. They are as follows:

- 0 reserved for 'any'
- 1 reserved for SNMPv1
- 2 reserved for SNMPv2c
- 3 User-Based Security Model (USM)

"

SYNTAX INTEGER(0 .. 2147483647)

SnmpMessageProcessingModel ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION "An identifier that uniquely identifies a Message  
Processing Model of the Message Processing  
Subsystem within this SNMP Management  
Architecture.

The values for messageProcessingModel are  
allocated as follows:

- Values between 0 and 255, inclusive, are reserved for standards-track Message Processing Models and are managed by the Internet Assigned Numbers Authority (IANA).
- Values greater than 255 are allocated to enterprise-specific Message Processing Models. An enterprise messageProcessingModel value is defined to be:

$$\text{enterpriseID} * 256 +$$
$$\text{messageProcessingModel within enterprise}$$

For example, the fourth Message Processing Model defined by the enterprise whose enterpriseID

is 1 would be 259.

This scheme for allocating messageProcessingModel values allows for a maximum of 255 standards-based Message Processing Models, and for a maximum of 256 Message Processing Models per enterprise.

It is believed that the assignment of new messageProcessingModel values will be rare in practice because the larger the number of simultaneously utilized Message Processing Models, the larger the chance that interoperability will suffer. It is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard messageProcessingModels. This limits the ability to define new proprietary implementations of Message Processing Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the messageProcessingModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of messageProcessingModel defined for use with SNMP. They are as follows:

- 0 reserved for SNMPv1
- 1 reserved for SNMPv2c
- 2 reserved for SNMPv2u and SNMPv2\*
- 3 reserved for SNMPv3

"

SYNTAX INTEGER(0 .. 2147483647)

SnmSecurityLevel

::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "A Level of Security at which SNMP messages can be sent or with which operations are being processed; in particular, one of:

- noAuthNoPriv - without authentication and without privacy,
- authNoPriv - with authentication but without privacy,
- authPriv - with authentication and with privacy.

These three values are ordered such that noAuthNoPriv is less than authNoPriv and

```
        authNoPriv is less than authPriv.
    "
SYNTAX    INTEGER { noAuthNoPriv(1),
                  authNoPriv(2),
                  authPriv(3)
                }

```

```
SnmAdminString ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "255t"
    STATUS
        current
    DESCRIPTION "An octet string containing administrative
                information, preferably in human-readable form.

```

To facilitate internationalization, this information is represented using the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 transformation format described in [RFC2279].

Since additional code points are added by amendments to the 10646 standard from time to time, implementations must be prepared to encounter any code point from 0x00000000 to 0x7fffffff. Byte sequences that do not correspond to the valid UTF-8 encoding of a code point or are outside this range are prohibited.

The use of control codes should be avoided.

When it is necessary to represent a newline, the control code sequence CR LF should be used.

The use of leading or trailing white space should be avoided.

For code points not directly supported by user interface hardware or software, an alternative means of entry and display, such as hexadecimal, may be provided.

For information encoded in 7-bit US-ASCII, the UTF-8 encoding is identical to the

US-ASCII encoding.

UTF-8 may require multiple bytes to represent a single character / code point; thus the length of this object in octets may be different from the number of characters encoded. Similarly, size constraints refer to the number of encoded octets, not the number of characters represented by an encoding.

Note that when this TC is used for an object that is used or envisioned to be used as an index, then a SIZE restriction MUST be specified so that the number of sub-identifiers for any object instance does not exceed the limit of 128, as defined by [RFC3416].

Note that the size of an SnmpAdminString object is measured in octets, not characters.

"

SYNTAX OCTET STRING (SIZE (0..255))

-- Administrative assignments \*\*\*\*\*

snmpFrameworkAdmin

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 1 }

snmpFrameworkMIBObjects

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 2 }

snmpFrameworkMIBConformance

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 3 }

-- the snmpEngine Group \*\*\*\*\*

snmpEngine OBJECT IDENTIFIER ::= { snmpFrameworkMIBObjects 1 }

snmpEngineID OBJECT-TYPE

SYNTAX SnmpEngineID

MAX-ACCESS read-only

STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier."



This information SHOULD be stored in non-volatile storage so that it remains constant across re-initializations of the SNMP engine.  
"

::= { snmpEngine 1 }

snmpEngineBoots OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of times that the SNMP engine has (re-)initialized itself since snmpEngineID was last configured.  
"

::= { snmpEngine 2 }

snmpEngineTime OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The number of seconds since the value of the snmpEngineBoots object last changed. When incrementing this object's value would cause it to exceed its maximum, snmpEngineBoots is incremented as if a re-initialization had occurred, and this object's value consequently reverts to zero.  
"

::= { snmpEngine 3 }

snmpEngineMaxMessageSize OBJECT-TYPE

SYNTAX INTEGER (484..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The maximum length in octets of an SNMP message which this SNMP engine can send or receive and process, determined as the minimum of the maximum message size values supported among all of the transports available to and supported by the engine.  
"

::= { snmpEngine 4 }

-- Registration Points for Authentication and Privacy Protocols \*\*

snmpAuthProtocols OBJECT-IDENTITY

```

STATUS    current
DESCRIPTION "Registration point for standards-track
            authentication protocols
used in SNMP Management
            Frameworks.
"
 ::= { snmpFrameworkAdmin 1 }

snmpPrivProtocols OBJECT-IDENTITY
STATUS    current
DESCRIPTION "Registration point for standards-track privacy
            protocols used in SNMP Management Frameworks.
"
 ::= { snmpFrameworkAdmin 2 }

-- Conformance information *****

snmpFrameworkMIBCompliances
    OBJECT IDENTIFIER ::= { snmpFrameworkMIBConformance 1 }
snmpFrameworkMIBGroups
    OBJECT IDENTIFIER ::= { snmpFrameworkMIBConformance 2 }

-- compliance statements

snmpFrameworkMIBCompliance MODULE-COMPLIANCE
STATUS    current
DESCRIPTION "The compliance statement for SNMP engines which
            implement the SNMP Management Framework MIB.
"
MODULE    -- this module
    MANDATORY-GROUPS { snmpEngineGroup }

 ::= { snmpFrameworkMIBCompliances 1 }

-- units of conformance

snmpEngineGroup
OBJECT-GROUP
OBJECTS {
    snmpEngineID,
    snmpEngineBoots,
    snmpEngineTime,
    snmpEngineMaxMessageSize
}
STATUS    current
DESCRIPTION "A collection of objects for identifying and
            determining the configuration and current timeliness

```

values of an SNMP engine.

"

::= { snmpFrameworkMIBGroups 1 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-FRAMEWORK-MIB

No license file was found, but licenses were detected in source scan.

RMON2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,  
Gauge32, IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI  
TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp  
FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF

ifIndex FROM IF-MIB

OwnerString, statistics, history, hosts,  
matrix, filter, etherStatsEntry, historyControlEntry,  
hostControlEntry, matrixControlEntry, filterEntry,  
channelEntry FROM RMON-MIB  
tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,

ringStationControlEntry, sourceRoutingStatsEntry  
FROM TOKEN-RING-RMON-MIB;

-- Remote Network Monitoring MIB

rmon MODULE-IDENTITY

LAST-UPDATED "200605020000Z" -- May 2, 2006

ORGANIZATION "IETF RMON

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#### DESCRIPTION

"The MIB module for managing remote monitoring device implementations. This MIB module extends the architecture introduced in the original RMON MIB as specified in RFC 2819.

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REVISION "200605020000Z" -- May 2, 2006

#### DESCRIPTION

"This version updates the proposed-standard version of the RMON2 MIB (published as RFC 2021) by adding 2 new enumerations to the nlMatrixTopNControlRateBase object and 4 new enumerations to the alMatrixTopNControlRateBase object. These new enumerations support the creation of high-capacity topN reports in the High Capacity RMON MIB [RFC3273].

Additionally, the following objects have been deprecated, as they have not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard:

probeDownloadFile  
probeDownloadTFTPServer  
probeDownloadAction  
probeDownloadStatus

serialMode  
serialProtocol  
serialTimeout  
serialModemInitString  
serialModemHangUpString  
serialModemConnectResp  
serialModemNoConnectResp  
serialDialoutTimeout  
serialStatus  
serialConnectDestIpAddress  
serialConnectType  
serialConnectDialString  
serialConnectSwitchConnectSeq

serialConnectSwitchDisconnectSeq  
serialConnectSwitchResetSeq  
serialConnectOwner  
serialConnectStatus  
netConfigIPAddress  
netConfigSubnetMask  
netConfigStatus  
netDefaultGateway  
tokenRingMLStats2DroppedFrames  
tokenRingMLStats2CreateTime  
tokenRingPStats2DroppedFrames  
tokenRingPStats2CreateTime  
ringStationControl2DroppedFrames  
ringStationControl2CreateTime  
sourceRoutingStats2DroppedFrames  
sourceRoutingStats2CreateTime  
trapDestIndex  
trapDestCommunity  
trapDestProtocol  
trapDestAddress  
trapDestOwner  
trapDestStatus

In addition, two corrections were made. The LastCreateTime Textual Convention had been defined with a base type of another textual convention, which isn't allowed in SMIv2. The definition has been modified to use TimeTicks as the base type.

Further,  
the SerialConfigEntry SEQUENCE definition included sub-typing information that is not allowed in SMIv2. This information has been deleted. Ranges were added to a number of objects and textual-conventions to constrain their maximum (and sometimes minimum) sizes. The addition of these ranges documents existing practice for these objects. These objects

are:

ControlString  
protocolDirID  
protocolDirParameters  
addressMapNetworkAddress  
nlHostAddress  
nlMatrixSDSourceAddress  
nlMatrixSDDestAddress  
nlMatrixDSSourceAddress

nlMatrixDSDestAddress  
nlMatrixTopNSourceAddress  
nlMatrixTopNDestAddress  
alHostEntry  
alMatrixSDEntry  
alMatrixDSEntry  
alMatrixTopNSourceAddress  
alMatrixTopNDestAddress

Finally, the TimeFilter TC has been updated to encourage agent implementations that allow a MIB walk to behave well even when performed by an application that is not aware of the special TimeFilter semantics."

REVISION "200207080000Z" -- 08 July, 2002

DESCRIPTION

"Added new enumerations to support the High-Capacity RMON MIB as defined in RFC 3273. Also fixed some typos and added clarifications."

REVISION "199605270000Z" -- 27 May, 1996

DESCRIPTION

"Original version. Published as RFC 2021."

::= { mib-2 16 }

-- { rmon 1 } through { rmon 10 } are defined in RMON and  
-- the Token Ring RMON MIB [RFC1513]

protocolDir OBJECT IDENTIFIER ::= { rmon 11 }  
protocolDist OBJECT IDENTIFIER ::= { rmon 12 }  
addressMap OBJECT IDENTIFIER ::= { rmon 13 }  
nlHost OBJECT IDENTIFIER ::= { rmon 14 }  
nlMatrix OBJECT IDENTIFIER ::= { rmon 15 }  
alHost OBJECT IDENTIFIER ::= { rmon 16 }  
alMatrix OBJECT IDENTIFIER  
::= { rmon 17 }  
usrHistory OBJECT IDENTIFIER ::= { rmon 18 }  
probeConfig OBJECT IDENTIFIER ::= { rmon 19 }  
rmonConformance OBJECT IDENTIFIER ::= { rmon 20 }

-- Textual Conventions

ZeroBasedCounter32 ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that counts events with the following semantics: objects of this type will be set to zero(0) on creation and will thereafter count appropriate events, wrapping back to zero(0) when the value  $2^{32}$  is reached.

Provided that an application discovers the new object within the minimum time to wrap, it can use the initial value as a delta since it last polled the table of which this object is part. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

Typically, this TC is used in tables where the INDEX space is constantly changing and/or the TimeFilter mechanism is in use."

SYNTAX Gauge32

LastCreateTime ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that stores the value of the sysUpTime object at the last time its entry was created.

This can be used for polling applications to determine that an entry has been deleted and re-created between polls, causing an otherwise undetectable discontinuity in the data.

If sysUpTime is reset to zero as a result of a re-initialization of the network management (sub)system, then the values of all LastCreateTime objects are also reset. However, after approximately 497 days without a re-initialization, the sysUpTime object will reach  $2^{32}-1$  and then increment to zero; in this case, existing values of TimeStamp objects do not change.

This can lead to

ambiguities in the value of TimeStamp objects."

SYNTAX TimeTicks

TimeFilter ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"To be used for the index to a table. Allows an application to download only those rows changed since a particular time.

Note that this is not a history mechanism. Only current values

of underlying objects are returned; saved instance values associated with particular values of sysUpTime are not.

An entry is considered changed if the value of any object in the entry changes, if the row is created, or if any object in the entry is created or deleted. Note that deleted entries cannot be detected or downloaded.

A time-filtered conceptual table is created by inserting a single object of SYNTAX TimeFilter as the first INDEX component in a copy of an existing basic conceptual table (i.e., any SEQUENCE without a TimeFilter INDEX component). Thus, for each conceptual entry 'I' in the basic table, there exists N conceptual entries in the time-filtered version, indexed N.I, where 'N' is equal to the value of sysUpTime.

When an application retrieves conceptual instances from a time-filtered table, and an INDEX value is provided for the TimeFilter INDEX component 'N', the agent will only consider returning basic conceptual entries (e.g., 'fooColumn.N.I') if any column within the basic conceptual entry has changed since sysUpTime 'N'. If not, the basic conceptual entry will be ignored for the particular retrieval operation.

When sysUpTime is equal to zero, this table shall be empty.

One conceptual entry exists for each past value of sysUpTime, except that the whole table is purged should sysUpTime wrap.

As an entry in a time-filtered table is updated (i.e., one of the columns in the basic conceptual table is changed), new conceptual entries are also created in the time-filtered version (which still shares the now updated object values with all other instances). The number of unique time-filtered instances that are created is determined by the value of sysUpTime at which the basic entry was last updated. One unique instance will exist for each value of sysUpTime at the last update time for the row. However, a new TimeFilter index instance is created for each new sysUpTime value. The TimeFilter index values not associated with entry updates are called duplicate time-filtered instances.

After some deployment experience, it has been determined that a time-filtered table is more efficient if the agent stops a MIB walk operation by skipping over rows with a TimeFilter index value higher than the value in the received GetNext/GetBulk request. That is, instead of incrementing a



TimeFilter index value, the agent will continue to the next

object or table. As a consequence, GetNext or GetBulk operations will provide only one pass through a time-filtered table.

It is suggested that an agent implement a time-filtered table in this manner to improve performance and avoid a MIB walk getting stuck in time-filtered tables. It is, however, still acceptable for an agent to implement a time-filtered table in the traditional manner (i.e., every conceptual time-filtered instance is returned in GetNext and GetBulk PDU responses), and management applications must be able to deal with such traditional implementations.

See the appendix for further discussion of this textual convention.

The following example is provided to demonstrate TimeFilter behavior:

Consider the following basic conceptual table, basicFooTable. (Note that the basic version of a time-filtered table may not actually be defined.)

basicFooTable:

```
basicFooTable ...  
INDEX { fooIndex }
```

```
BasicFooEntry {  
    fooIndex    Integer32,  
    fooCounts   Counter32  
}
```

For this example, the basicFooTable contains two static conceptual entries (fooIndex equals '1' and '2'), created at time zero. It also contains one dynamic conceptual entry (fooIndex equals '3'), which is created at time '3' and deleted at time '7'.

The time-filtered version of the basicFooTable could be defined as follows:

FooTable:

```

fooTable ...
INDEX { fooTimeMark, fooIndex }

FooEntry {

    fooTimeMark TimeFilter,
    fooIndex Integer32,
    fooCounts Counter32
}

```

Note that entries exist in the time-filtered conceptual table only if they actually exist in the underlying (basic) table.

For this example, the fooTable will have three underlying basic entries (fooIndex == 1, 2, and 3), with the following activity (for sysUpTime equal 0 to 9):

- fooEntry.N.1 is created at time '0' and most recently updated at time '6' to the value '5'.
- fooEntry.N.2 is created at time '0' and most recently updated at time '8' to the value '9'.
- fooEntry.N.3 is created at time '3', updated at time '5' to the value '17', and deleted at time '7'.

The following tables show the values that would be returned for MIB walk operations with various TimeFilter values, done at different times. An application issues a retrieval request at time 'T', with a TimeFilter value, 'N' (typically set to a lower value, such as the value of sysUpTime at the last polling cycle).

The following values would be returned in a MIB walk of fooCounts.N if T equals '0' and N equals '0':

```

fooCounts.N.I Value
=====
fooCounts.0.1
0
fooCounts.0.2 0

```

Note that nothing is returned for fooCounts.0.3, since that entry does not exist at sysUpTime equals '0'.

The following values would be returned in a full (traditional) MIB

walk of fooCounts.N if T equals '3' and N equals '0':

| fooCounts.N.I | Value |
|---------------|-------|
| fooCounts.0.1 | 0     |
| fooCounts.0.2 | 0     |
| fooCounts.0.3 | 0     |
| fooCounts.1.3 | 0     |
| fooCounts.2.3 | 0     |
| fooCounts.3.3 | 0     |

Note that there are no instances for T equals 1 or 2 for the first two values of N, as these entries did not change since they were created at time '0'.

Note that the current value for 'fooCounts.N.3' is returned here, even for values of N less than '3' (when the entry was created). The agent only considers the current existence of an entry in the TimeFilter algorithm, not the time when the entry was created.

Note that the instances 'fooCounts.0.3', 'fooCounts.1.3', and 'fooCounts.2.3' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '6' and N equals '3':

| fooCounts.N.I | Value |
|---------------|-------|
| fooCounts.3.1 | 5     |
| fooCounts.3.3 | 17    |
| fooCounts.4.1 | 5     |
| fooCounts.4.3 | 17    |
| fooCounts.5.1 | 5     |
| fooCounts.5.3 | 17    |
| fooCounts.6.1 | 5     |

Note that no instances for entry 'fooCounts.N.2' are returned, since it has not changed since time '3'.

Note that all instances except 'fooCounts.5.3' and 'fooCounts.6.1' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '9' and N equals '6':

| fooCounts.N.I | Value |
|---------------|-------|
| fooCounts.6.1 | 5     |
| fooCounts.6.2 | 9     |
| fooCounts.7.2 | 9     |
| fooCounts.8.2 | 9     |

Note that no instances for entry 'fooCounts.N.3' are returned, since it was deleted at time '7'.

Note that instances 'fooCounts.6.2' and 'fooCounts.7.2'

are duplicates and can be suppressed by the agent in a MIB walk."

SYNTAX TimeTicks

DataSource ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Identifies the source of the data that the associated function is configured to analyze. This source can be any interface on this device.

In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1."

SYNTAX OBJECT IDENTIFIER

--

-- Protocol Directory Group

--

-- Lists the inventory of protocols the probe has the capability of monitoring and allows the addition, deletion, and configuration of entries in this list.

protocolDirLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time the protocol directory was last modified, either through insertions or deletions, or through modifications of the protocolDirAddressMapConfig, protocolDirHostConfig, or protocolDirMatrixConfig."

::= { protocolDir 1 }

protocolDirTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists the protocols that this agent has the capability to decode and count. There is one entry in this table for each such protocol.

These protocols represent

different network-layer, transport-layer, and higher-layer

protocols. The agent should boot up with this table preconfigured with those protocols that it knows about and wishes to monitor. Implementations are strongly encouraged to support protocols higher than the network layer (at least for the protocol distribution group), even for implementations that don't support the application-layer groups."

::= { protocolDir 2 }

protocolDirEntry OBJECT-TYPE

SYNTAX ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDirTable.

An example of the indexing of this entry is protocolDirLocalIndex.8.0.0.0.1.0.0.8.0.2.0.0, which is the encoding of a length of 8, followed by 8 subids encoding the protocolDirID of 1.2048, followed by a length of 2 and the 2 subids encoding zero-valued

parameters.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

```
INDEX { protocolDirID, protocolDirParameters }  
 ::= { protocolDirTable 1 }
```

```
ProtocolDirEntry ::= SEQUENCE {  
  protocolDirID          OCTET STRING,  
  protocolDirParameters  OCTET STRING,  
  protocolDirLocalIndex  Integer32,  
  protocolDirDescr       DisplayString,  
  protocolDirType        BITS,  
  protocolDirAddressMapConfig  INTEGER,  
  protocolDirHostConfig  INTEGER,  
  protocolDirMatrixConfig  INTEGER,  
  protocolDirOwner        OwnerString,  
  protocolDirStatus       RowStatus  
}
```

#### protocolDirID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (4..128))

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"A unique identifier for a particular protocol. Standard identifiers will be defined in such a manner that they

can often be used as specifications for new protocols - i.e., a tree-structured assignment mechanism that matches the protocol encapsulation 'tree' and that has algorithmic assignment mechanisms for certain subtrees. See RFC 2074 for more details.

Despite the algorithmic mechanism, the probe will only place entries in here for those protocols it chooses to collect. In other words, it need not populate this table with all possible ethernet protocol types, nor need it create them on the fly when it sees them. Whether it does these things is a matter of product definition (cost/benefit, usability) and is up to the designer of the product.

If an entry is written to this table with a protocolDirID that the agent doesn't understand, either directly or

algorithmically, the SET request will be rejected with an inconsistentName or badValue (for SNMPv1) error."

```
::= { protocolDirEntry 1 }
```

protocolDirParameters OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters for the associated protocolDirID. See the associated RMON2 Protocol Identifiers document for a description of the possible parameters. There will be one octet in this string for each sub-identifier in the protocolDirID, and the parameters will appear here in the same order as the associated sub-identifiers appear in the protocolDirID.

Every node in the protocolDirID tree has a different, optional set of parameters defined (that is, the definition of parameters for a node is optional). The proper parameter value for each node is included in this string. Note that the inclusion of a parameter value in this string for each node is not optional. What is optional is that a node may have no parameters defined, in which case the parameter field for that node will be zero."

::= { protocolDirEntry 2 }

protocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The locally arbitrary but unique identifier associated with this protocolDir entry.

The value for each supported protocol must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization, except that if a protocol is deleted and re-created, it must be re-created with a new value that has not been used since the last re-initialization.

The specific value is meaningful only within a given SNMP entity. A protocolDirLocalIndex must not be re-used until the next agent restart in the event that the protocol directory entry is deleted."

::= { protocolDirEntry 3 }

protocolDirDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (1..64))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A textual description of the protocol encapsulation.

A probe may choose to describe only a subset of the entire encapsulation (e.g., only the highest layer).

This object is intended for human consumption only.

This object may not be modified if the associated protocolDirStatus object is equal to active(1)."

::= { protocolDirEntry 4 }

protocolDirType OBJECT-TYPE

SYNTAX BITS {

    extensible(0),

    addressRecognitionCapable(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object describes 2 attributes of this protocol directory entry.

The presence or absence of the 'extensible' bit describes whether this protocol directory entry can be extended by the user by creating protocol directory entries that are children of this protocol.

An example of an entry that will often allow extensibility is

'ip.udp'. The probe may automatically populate some children of this node, such as 'ip.udp.snmp' and 'ip.udp.dns'.

A probe administrator or user may also populate additional children via remote SNMP requests that create entries in this table. When a child node is added for a protocol for which the probe has no built-in support extending a parent node (for which the probe does have built-in support), that child node is not extendable. This is termed 'limited extensibility'.

When a child node is added through this extensibility



mechanism, the values of protocolDirLocalIndex and protocolDirType shall be assigned by the agent.

The other objects in the entry will be assigned by the manager who is creating the new entry.

This object also describes whether this agent can recognize addresses for this protocol, should it be a network-level protocol. That is, while a probe may be able to recognize packets of a particular network-layer protocol and count them, it takes additional logic to be able to recognize the addresses in this protocol and to populate network-layer or application-layer tables with the addresses in this protocol. If this bit is set, the agent will recognize network-layer addresses for this protocol and populate the network- and application-layer host and matrix tables with these protocols.

Note that when an entry is created, the agent will supply values for the bits that match the capabilities of the agent

with respect to this protocol. Note that since row creations usually exercise the limited extensibility feature, these bits will usually be set to zero."

```
::= { protocolDirEntry 5 }
```

#### protocolDirAddressMapConfig OBJECT-TYPE

```
SYNTAX    INTEGER {  
            notSupported(1),  
            supportedOff(2),  
            supportedOn(3)  
        }
```

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object describes and configures the probe's support for address mapping for this protocol. When the probe creates entries in this table for all protocols that it understands,

it will set the entry to notSupported(1) if it doesn't have the capability to perform address mapping for the protocol or if this protocol is not a network-layer protocol. When an entry is created in this table by a management operation as part of the limited extensibility feature,

the probe must set

this value to notSupported(1), because limited extensibility of the protocolDirTable does not extend to interpreting addresses of the extended protocols.

If the value of this object is notSupported(1), the probe will not perform address mapping for this protocol and shall not allow this object to be changed to any other value.

If the value of this object is supportedOn(3), the probe supports address mapping for this protocol and is configured to perform address mapping for this protocol for all addressMappingControlEntries and all interfaces.

If the value of this object is supportedOff(2), the probe supports address mapping for this protocol but is configured to not perform address mapping for this protocol for any addressMappingControlEntries and all interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the addressMappingTable."  
 ::= { protocolDirEntry 6 }

protocolDirHostConfig OBJECT-TYPE

```
SYNTAX    INTEGER {  
            notSupported(1),  
            supportedOff(2),  
            supportedOn(3)  
        }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object describes and configures the probe's support for the network-layer and application-layer host tables for this protocol. When the probe creates entries in this table for all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlHostTable for this protocol or if the alHostTable is implemented but doesn't have the capability to track this protocol. Note that if the alHostTable is implemented, the probe may only support a protocol if it is supported in both the nlHostTable and the

alHostTable.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-layer protocol for which the probe recognizes addresses, and

thus the probe will populate the nlHostTable and alHostTable with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track the nlHostTable or alHostTable for this protocol and shall not allow this object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of the nlHostTable and alHostTable for this protocol and is configured to track both tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of the nlHostTable and alHostTable for this protocol but is configured to not track these

tables

for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlHostTable and alHostTable.

Note that since each alHostEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."

::= { protocolDirEntry 7 }

#### protocolDirMatrixConfig OBJECT-TYPE

```
SYNTAX  INTEGER {
    notSupported(1),
    supportedOff(2),
    supportedOn(3)
}
```

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object describes and configures the probe's support for the network-layer and application-layer matrix tables for this protocol. When the probe creates entries

in this table for

all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlMatrixTables for this protocol or if the alMatrixTables are implemented but don't have the capability to track this protocol. Note that if the alMatrix tables are implemented, the probe may only support a protocol if it is supported in both of the nlMatrixTables and both of the alMatrixTables.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-

layer protocol for which the probe recognizes addresses, and thus the probe will populate both of the nlMatrixTables and both of the alMatrixTables with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track either of the nlMatrixTables or the alMatrixTables

for this protocol and shall not allow this

object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol and is configured to track these tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol but is configured to not track these tables for this protocol for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlMatrixTables and the alMatrixTables.

Note that since each alMatrixEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."

::= { protocolDirEntry 8 }

protocolDirOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDirEntry 9 }

protocolDirStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this protocol directory entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlHostTable, nlMatrixSDTable, nlMatrixDSTable, alHostTable, alMatrixSDTable, and alMatrixDSTable shall be deleted."

::= { protocolDirEntry 10 }

--

-- Protocol Distribution Group (protocolDist)

--

-- Collects the relative amounts of octets and packets for the different protocols detected on a network segment.

-- protocolDistControlTable,

-- protocolDistStatsTable

protocolDistControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Controls the setup of protocol type distribution statistics tables.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of protocol statistics is available.

Rationale:

This table controls collection of very basic statistics for any or all of the protocols detected on a given interface. An NMS can use this table to quickly determine bandwidth allocation utilized by different protocols.

A media-specific statistics collection could also

be configured (e.g., etherStats, trPStats) to easily obtain total frame, octet, and droppedEvents for the same interface."

::= { protocolDist 1 }

protocolDistControlEntry OBJECT-TYPE

SYNTAX ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistControlTable.

An example of the indexing of this entry is

protocolDistControlDroppedFrames.7"

INDEX { protocolDistControlIndex }

::= { protocolDistControlTable 1 }

ProtocolDistControlEntry ::= SEQUENCE {

protocolDistControlIndex Integer32,

protocolDistControlDataSource DataSource,

protocolDistControlDroppedFrames Counter32,

protocolDistControlCreateTime LastCreateTime,

protocolDistControlOwner OwnerString,

protocolDistControlStatus RowStatus

}

protocolDistControlIndex

OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique index for this protocolDistControlEntry."

::= { protocolDistControlEntry 1 }

protocolDistControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the this protocol distribution.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated protocolDistControlStatus object is equal to active(1)."

::= { protocolDistControlEntry 2 }

protocolDistControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents,

but

that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { protocolDistControlEntry 3 }

protocolDistControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { protocolDistControlEntry 4 }

protocolDistControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDistControlEntry 5 }

protocolDistControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The status of this row.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the protocolDistStatsTable shall be deleted."

::= { protocolDistControlEntry 6 }

-- per interface protocol distribution statistics table

protocolDistStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry is made in this table for every protocol in the protocolDirTable that has been seen in at least one packet.

Counters are updated

in this table for every protocol type

that is encountered when parsing a packet, but no counters are

updated for packets with MAC-layer errors.

Note that if a protocolDirEntry is deleted, all associated entries in this table are removed."

::= { protocolDist 2 }

protocolDistStatsEntry OBJECT-TYPE

SYNTAX ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistStatsTable.

The index is composed of the protocolDistControlIndex of the associated protocolDistControlEntry, followed by the protocolDirLocalIndex of the associated protocol that this entry represents. In other words, the index identifies the protocol distribution an entry is a part of and the particular protocol that it represents.

An example of the indexing of this entry is protocolDistStatsPkts.1.18"

INDEX { protocolDistControlIndex,



```
protocolDirLocalIndex }
 ::= { protocolDistStatsTable 1 }
```

```
ProtocolDistStatsEntry ::= SEQUENCE {
    protocolDistStatsPkts      ZeroBasedCounter32,
    protocolDistStatsOctets    ZeroBasedCounter32
}
```

protocolDistStatsPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type received without errors. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

```
::= { protocolDistStatsEntry 1 }
```

protocolDistStatsOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type

received since it was added to the protocolDistStatsTable (excluding framing bits,

but including FCS octets), except for

those octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

```
::= { protocolDistStatsEntry 2 }
```

```
--
```

```
-- Address Map Group (addressMap)
```

```
--
```

```
-- Lists MAC address to network address bindings discovered by the
```

```
-- probe and what interface they were last seen on.
```

```
-- addressMapControlTable
```

```
-- addressMapTable
```

addressMapInserts OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of times an address mapping entry has been inserted into the addressMapTable. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

Note that the table size can be determined by subtracting addressMapDeletes from addressMapInserts."

::= { addressMap 1 }

addressMapDeletes

OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of times an address mapping entry has been deleted from the addressMapTable (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

Note that the table size can be determined by subtracting addressMapDeletes from addressMapInserts."

::= { addressMap 2 }

addressMapMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)  
MAX-ACCESS read-write

STATUS current  
DESCRIPTION

"The maximum number of entries that are desired in the addressMapTable. The probe will not create more than this number of entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { addressMap 3 }

addressMapControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table to control the collection of mappings from network layer address to physical address to interface.

Note that this is not like the typical RMON controlTable and dataTable in which each entry creates its own data table. Each entry in this table enables the discovery of addresses on a new interface and the placement of address

mappings into the central addressMapTable.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of address mappings is available."

::= { addressMap 4 }

addressMapControlEntry OBJECT-TYPE

SYNTAX AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapControlTable.

An example of the indexing of this entry is addressMapControlDroppedFrames.1"

INDEX { addressMapControlIndex }

::= { addressMapControlTable 1 }

AddressMapControlEntry ::= SEQUENCE {

addressMapControlIndex Integer32,

addressMapControlDataSource DataSource,

addressMapControlDroppedFrames Counter32,

addressMapControlOwner OwnerString,

addressMapControlStatus RowStatus

}

addressMapControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A unique index for this entry in the addressMapControlTable."

::= { addressMapControlEntry 1 }

addressMapControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for this addressMapControlEntry."

::= { addressMapControlEntry 2 }

addressMapControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { addressMapControlEntry 3 }

addressMapControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { addressMapControlEntry 4 }

addressMapControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this addressMap control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the addressMapTable shall be deleted."

::= { addressMapControlEntry 5 }

addressMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of mappings from network layer address to physical address to interface.

The probe will add entries to this table based on the source MAC and network addresses seen in packets without MAC-level errors. The probe will populate this table for all protocols in the protocol directory table whose value of protocolDirAddressMapConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirAddressMapConfig value of supportedOff(2)."

::= { addressMap 5 }

addressMapEntry OBJECT-TYPE

SYNTAX AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapTable.

The protocolDirLocalIndex in the index identifies the network layer protocol of the addressMapNetworkAddress.

An example of the indexing of this entry is

addressMapSource.783495.18.4.128.2.6.6.11.1.3.6.1.2.1.2.2.1.1.1.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { addressMapTimeMark, protocolDirLocalIndex,  
        addressMapNetworkAddress, addressMapSource }  
 ::= { addressMapTable 1 }
```

```
AddressMapEntry ::= SEQUENCE {  
    addressMapTimeMark      TimeFilter,  
    addressMapNetworkAddress OCTET STRING,  
    addressMapSource        OBJECT IDENTIFIER,  
    addressMapPhysicalAddress OCTET STRING,  
    addressMapLastChange    TimeStamp  
}
```

addressMapTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this

works."

```
::= { addressMapEntry 1 }
```

addressMapNetworkAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this relation.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

```
::= { addressMapEntry 2 }
```

addressMapSource OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The interface or port on which the associated network address was most recently seen.

If this address mapping was discovered on an interface, this object shall

identify the instance of the ifIndex

object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.

If this address mapping was discovered on a port, this object shall identify the instance of the rptrGroupPortIndex object, defined in [RFC2108], for the desired port.

For example, if an entry were to receive data from group #1, port #1, this object would be set to rptrGroupPortIndex.1.1.

Note that while the dataSource associated with this entry may only point to index objects, this object may at times point to repeater port objects. This situation occurs when the dataSource points to an interface that is a locally attached repeater and the agent has additional information about the source port of traffic seen on that repeater."

::= { addressMapEntry 3 }

addressMapPhysicalAddress

OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last source physical address on which the associated network address was seen. If the protocol of the associated network address was encapsulated inside of a network-level or higher protocol, this will be the address of the next-lower protocol with the addressRecognitionCapable bit enabled and will be formatted as specified for that protocol."

::= { addressMapEntry 4 }

addressMapLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this entry was last created or the values of the physical address changed.

This can be used to help detect duplicate address problems, in which case this object will be updated frequently."

```
::= { addressMapEntry 5 }
```

```
--
```

```
-- Network Layer Host Group
```

```
--
```

```
--
```

Counts the amount of traffic sent from and to each network address

```
-- discovered by the probe.
```

```
-- Note that while the hlHostControlTable also has objects that
```

```
-- control an optional alHostTable, implementation of the alHostTable is
```

```
-- not required to fully implement this group.
```

hlHostControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) host table control entries.

These entries will enable the collection of the network- and application-level host tables indexed by network addresses.

Both the network- and application-level host tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with which they can be implemented as a single datastore. (Note that if an implementation stores application-layer host records

in

memory, it can derive network-layer host records from them.)

Entries in the nlHostTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alHostTable, entries in the alHostTable will be created on behalf of each entry in this table.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of host statistics is available."

```
::= { nlHost 1 }
```



hlHostControlEntry OBJECT-TYPE

SYNTAX HIHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

hlHostControlNIDroppedFrames.1"

INDEX { hlHostControlIndex }

::= { hlHostControlTable 1 }

HIHostControlEntry ::= SEQUENCE {

hlHostControlIndex Integer32,

hlHostControlDataSource

DataSource,

hlHostControlNIDroppedFrames Counter32,

hlHostControlNIInserts Counter32,

hlHostControlNIDeletes Counter32,

hlHostControlNIMaxDesiredEntries Integer32,

hlHostControlAlDroppedFrames Counter32,

hlHostControlAlInserts Counter32,

hlHostControlAlDeletes Counter32,

hlHostControlAlMaxDesiredEntries Integer32,

hlHostControlOwner OwnerString,

hlHostControlStatus RowStatus

}

hlHostControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the hlHostControlTable. Each such entry defines a function that discovers hosts on a particular interface and places statistics about them in the nlHostTable, and optionally in the alHostTable, on behalf of this hlHostControlEntry."

::= { hlHostControlEntry 1 }

hlHostControlDataSource

OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the associated host tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated h1HostControlStatus object is equal to active(1)."

::= { h1HostControlEntry 2 }

h1HostControlNIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for the associated n1Host entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the n1HostTable is inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { h1HostControlEntry 3 }

h1HostControlNIInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an n1Host entry has been inserted into the n1Host table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNIDeletes from hlHostControlNIInserts."  
::= { hlHostControlEntry 4 }

#### hlHostControlNIDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNIDeletes from hlHostControlNIInserts."  
::= { hlHostControlEntry 5 }

#### hlHostControlNIMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the nlHostTable on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated `hlHostControlStatus` object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

```
::= { hlHostControlEntry 6 }
```

`hlHostControlAIDroppedFrames` OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the `*StatsDropEvents`, but that the probe chose not to count for the associated

`alHost` entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the `alHostTable` is not implemented or is inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the `dropEvents` counter, this number is the exact number of frames dropped."

```
::= { hlHostControlEntry 7 }
```

`hlHostControlAllInserts` OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an `alHost` entry has been

inserted into the alHost table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting  
hlHostControlAllDeletes from hlHostControlAllInserts."  
::= { hlHostControlEntry 8 }

hlHostControlAllDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an alHost entry has been deleted from the alHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For

example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting  
hlHostControlAllDeletes from hlHostControlAllInserts."

::= { hlHostControlEntry 9 }

hlHostControlAllMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alHost table on behalf of this control entry. The probe will not

create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlHostControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

```
::= { hlHostControlEntry 10 }
```

#### hlHostControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

```
::= { hlHostControlEntry 11 }
```

#### hlHostControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The status of this hlHostControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlHostTable and alHostTable shall be deleted."

```
::= { hlHostControlEntry 12 }
```

#### nlHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIHostEntry

MAX-ACCESS not-accessible

## STATUS

current

## DESCRIPTION

"A collection of statistics for a particular network layer address that has been discovered on an interface of this device.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses seen as the source or destination address in all packets with no MAC errors, and will increment octet and packet counts in the table for all packets with no MAC errors."

::= { nlHost 2 }

## nlHostEntry OBJECT-TYPE

SYNTAX NIHostEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"A conceptual row in the nlHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created.

The protocolDirLocalIndex value in the index identifies the network layer protocol of the nlHostAddress.

An example of the indexing of this entry is  
nlHostOutPkts.1.783495.18.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

INDEX { hlHostControlIndex, nlHostTimeMark,  
protocolDirLocalIndex, nlHostAddress }

::= { nlHostTable 1 }

NIHostEntry ::= SEQUENCE {

nlHostTimeMark TimeFilter,

nlHostAddress OCTET STRING,

```

nlHostInPkts      ZeroBasedCounter32,
nlHostOutPkts    ZeroBasedCounter32,
nlHostInOctets   ZeroBasedCounter32,
nlHostOutOctets  ZeroBasedCounter32,
nlHostOutMacNonUnicastPkts ZeroBasedCounter32,
nlHostCreateTime LastCreateTime
}

```

nlHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nlHostEntry 1 }

nlHostAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this nlHostEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlHostEntry 2 }

nlHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted to

this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."



::= { nlHostEntry 3 }

nlHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 4 }

nlHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlHostEntry 5 }

nlHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::=

{ nlHostEntry 6 }

nlHostOutMacNonUnicastPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address that were directed to any MAC broadcast addresses or to any MAC multicast addresses since this host was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 7 }

nlHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlHostEntry 8 }

--

-- Network Layer Matrix

Group

--

-- Counts the amount of traffic sent between each pair of network addresses discovered by the probe.

-- Note that while the hlMatrixControlTable also has objects that control optional alMatrixTables, implementation of the alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) matrix control entries.

These entries will enable the collection of the network- and application-level matrix tables containing conversation statistics indexed by pairs of network addresses.

Both the network- and application-level matrix tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with

which they can be implemented as a single datastore. (Note that if an implementation stores application-layer matrix records

in memory, it can derive network-layer matrix records from them.)

Entries in the nlMatrixSDTable and nlMatrixDSTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alMatrix tables, entries in the alMatrix tables will be created on behalf of each entry in this table."

```
::= { nlMatrix 1 }
```

hlMatrixControlEntry OBJECT-TYPE

SYNTAX HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlMatrixControlTable.

An example of indexing of this entry is

hlMatrixControlNIDroppedFrames.1"

```
INDEX { hlMatrixControlIndex }
```

```
::= { hlMatrixControlTable 1 }
```

```
HlMatrixControlEntry ::= SEQUENCE {
```

```
hlMatrixControlIndex Integer32,
```

```
hlMatrixControlDataSource DataSource,
```

```
hlMatrixControlNIDroppedFrames
```

```
Counter32,
```

```
hlMatrixControlNIInserts Counter32,
```

```
hlMatrixControlNIDeletes Counter32,
```

```
hlMatrixControlNIMaxDesiredEntries Integer32,
```

```
hlMatrixControlAIDroppedFrames Counter32,
```

```
hlMatrixControlAIInserts Counter32,
```

```
hlMatrixControlAIDeletes Counter32,
```

```
hlMatrixControlAIMaxDesiredEntries Integer32,
```

```
hlMatrixControlOwner OwnerString,
```

```
hlMatrixControlStatus RowStatus
```

```
}
```

hlMatrixControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the h1MatrixControlTable. Each such entry defines a function that discovers conversations on a particular interface and places statistics about them in the n1MatrixSDTable and the n1MatrixDSTable, and optionally the a1MatrixSDTable and a1MatrixDSTable, on behalf of this

```
h1MatrixControlEntry."  
::= { h1MatrixControlEntry 1 }
```

#### h1MatrixControlDataSource OBJECT-TYPE

```
SYNTAX DataSource  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"The source of the data for the associated matrix tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated h1MatrixControlStatus object is equal to active(1)."

```
::= { h1MatrixControlEntry 2 }
```

#### h1MatrixControlNIDroppedFrames OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION
```

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of

some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the n1MatrixTables are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { hlMatrixControlEntry 3 }
```

#### hlMatrixControlNlInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an nlMatrix entry has been inserted into the nlMatrix tables. If an entry is inserted,

then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both the nlMatrixSDTable and nlMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the sum of then nlMatrixSDTable and nlMatrixDSTable sizes can be determined by subtracting hlMatrixControlNlDeletes from hlMatrixControlNlInserts."

```
::= { hlMatrixControlEntry 4 }
```

#### hlMatrixControlNlDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an nlMatrix entry has been deleted from the nlMatrix tables (for any reason). If an entry is deleted, then inserted, and then deleted, this counter

will be incremented by 2. The deletion of a conversation from both the nlMatrixSDTable and nlMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may

delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlNIDeletes from hlMatrixControlNIInserts."

::= { hlMatrixControlEntry 5 }

hlMatrixControlNIMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the nlMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlMatrixControlEntry 6 }

hlMatrixControlAIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe

is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the alMatrixTables are not implemented or are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { hlMatrixControlEntry 7 }
```

hlMatrixControlAllInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an alMatrix entry has been inserted into the alMatrix tables. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both the alMatrixSDTable and alMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlAllDeletes from hlMatrixControlAllInserts."

```
::= { hlMatrixControlEntry  
8 }
```

hlMatrixControlAllDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an alMatrix entry has been

deleted from the alMatrix tables. If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2. The deletion of a conversation from both the alMatrixSDTable and alMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note

that the table size can be determined by subtracting

hlMatrixControlAIDeletes from hlMatrixControlAllInserts."

::= { hlMatrixControlEntry 9 }

hlMatrixControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated

hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlMatrixControlEntry 10 }



hlMatrixControlOwner OBJECT-TYPE

SYNTAX OwnerString  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { hlMatrixControlEntry 11 }

hlMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this hlMatrixControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixSDTable, nlMatrixDSTable, alMatrixSDTable, and alMatrixDSTable shall be deleted by the agent."

::= { hlMatrixControlEntry 12 }

nlMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixSDEntry  
MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all conversations from a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no

MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixDSTable with the same source address and destination address."

::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE

SYNTAX NlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

An example of the indexing of this table is  
nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

Note that some combinations of index values may result in an

index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,  
protocolDirLocalIndex,  
nlMatrixSDSourceAddress, nlMatrixSDDestAddress }

::= { nlMatrixSDTable 1 }

NlMatrixSDEntry ::= SEQUENCE {

nlMatrixSDTimeMark TimeFilter,  
nlMatrixSDSourceAddress OCTET STRING,  
nlMatrixSDDestAddress OCTET STRING,  
nlMatrixSDPkts ZeroBasedCounter32,  
nlMatrixSDOctets ZeroBasedCounter32,  
nlMatrixSDCreateTime LastCreateTime  
}

nlMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nMatrixSDEntry 1 }

nMatrixSDSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nMatrixSDEntry 2 }

nMatrixSDDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this nMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an

encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nMatrixSDEntry 3 }

nMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was added to the nlMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to the destination address since this entry was added to the nlMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixSDEntry 6 }

-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the destination address and then by the source address to make it convenient to collect all conversations to a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixSDTable with the same source address and destination address."

```
::= { nlMatrix 3 }
```

nlMatrixDSEntry OBJECT-TYPE

SYNTAX NlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixDSSourceAddress and nlMatrixDSDestAddress.

An example of the indexing of this table is  
nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,  
        protocolDirLocalIndex,
```

```
nlMatrixDSDestAddress,  
nlMatrixDSSourceAddress }  
::= { nlMatrixDSTable 1 }
```

```
NlMatrixDSEntry ::= SEQUENCE {  
nlMatrixDSTimeMark      TimeFilter,  
nlMatrixDSSourceAddress OCTET STRING,  
nlMatrixDSDestAddress   OCTET STRING,  
nlMatrixDSPkts          ZeroBasedCounter32,  
nlMatrixDSOctets        ZeroBasedCounter32,  
nlMatrixDSCreateTime    LastCreateTime  
}
```

```
nlMatrixDSTimeMark OBJECT-TYPE  
SYNTAX      TimeFilter  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "A TimeFilter for this entry. See the TimeFilter textual  
    convention to see how this works."  
::= { nlMatrixDSEntry 1 }
```

```
nlMatrixDSSourceAddress OBJECT-TYPE  
SYNTAX      OCTET STRING (SIZE (1..255))  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "The network source address for this nlMatrixDSEntry.
```

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

```
::= { nlMatrixDSEntry 2 }
```

```
nlMatrixDSDestAddress OBJECT-TYPE  
SYNTAX      OCTET STRING (SIZE (1..255))  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "The network destination address for this  
    nlMatrixDSEntry.
```

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nMatrixDSEntry 3 }

nMatrixDSPkts

OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was added to the nMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nMatrixDSEntry 4 }

nMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to the destination address since this entry was added to the nMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nMatrixDSEntry 5 }

nMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.  
This can be used by the management station to ensure that the  
entry has not been deleted and recreated between polls."

::= { nlMatrixDSEntry 6 }

nlMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a  
report of the top N matrix entries according to  
a selected metric."

::= { nlMatrix 4 }

nlMatrixTopNControlEntry OBJECT-TYPE

SYNTAX NIMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row  
in the nlMatrixTopNControlTable.

An example of the indexing of this table is  
nlMatrixTopNControlDuration.3"

INDEX { nlMatrixTopNControlIndex }

::= { nlMatrixTopNControlTable 1 }

```
NIMatrixTopNControlEntry ::= SEQUENCE {  
    nlMatrixTopNControlIndex      Integer32,  
    nlMatrixTopNControlMatrixIndex Integer32,  
    nlMatrixTopNControlRateBase   INTEGER,  
    nlMatrixTopNControlTimeRemaining Integer32,  
    nlMatrixTopNControlGeneratedReports Counter32,  
    nlMatrixTopNControlDuration   Integer32,  
    nlMatrixTopNControlRequestedSize Integer32,  
    nlMatrixTopNControlGrantedSize Integer32,  
    nlMatrixTopNControlStartTime  TimeStamp,  
    nlMatrixTopNControlOwner      OwnerString,  
    nlMatrixTopNControlStatus     RowStatus  
}
```

nlMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)



MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the nlMatrixTopNControlTable. Each such entry defines one topN report prepared for one interface."

::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The nlMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The nlMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1)."

::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

nlMatrixTopNPkts(1),  
nlMatrixTopNOctets(2),  
nlMatrixTopNHighCapacityPkts(3),  
nlMatrixTopNHighCapacityOctets(4)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The variable for each nlMatrix[SD/DS] entry that the nlMatrixTopNEntries are sorted by, as well as a control for the table that the results will be reported in.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1).

If this value is less than or equal to 2, when the report is prepared, entries are created in the nlMatrixTopNTable associated with this object.

If this value is greater than or equal to 3, when the report

is prepared, entries are created in the  
nlMatrixTopNHighCapacityTable associated with this object."  
::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left  
in the report currently  
being collected. When this object is modified by  
the management station, a new collection is started,  
possibly aborting a currently running report. The  
new value is used as the requested duration of this

report and is immediately loaded into the associated  
nlMatrixTopNControlDuration object.

When the report finishes, the probe will automatically  
start another collection with the same initial value  
of nlMatrixTopNControlTimeRemaining. Thus, the management  
station may simply read the resulting reports repeatedly,  
checking the startTime and duration each time to ensure that a  
report was not missed or that the report parameters were not  
changed.

While the value of this object is non-zero, it decrements  
by one per second until it reaches zero. At the time  
that this object decrements to zero, the report is made  
accessible  
in the nlMatrixTopNTable, overwriting any report  
that may be there.

When this object is modified by the management station, any  
associated entries in the nlMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used  
in the hostTopNTable)."

DEFVAL { 1800 }

::= { nlMatrixTopNControlEntry 4 }

nlMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { nlMatrixTopNControlEntry 5 }

nlMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated nlMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same

value and shall not be modified until the next time the nlMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this nlMatrixTopNControlEntry."

::= { nlMatrixTopNControlEntry 6 }

nlMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set nlMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When

the associated nlMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated nlMatrixTopNControlRequestedSize object.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNOctetRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."

```
::= { nlMatrixTopNControlEntry 8 }
```

nlMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated nlMatrixTopNControlTimeRemaining object was modified to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."

```
::= { nlMatrixTopNControlEntry 9 }
```

nlMatrixTopNControlOwner

OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixTopNTable shall be deleted by the agent."

::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those network-layer matrix entries

that have counted the highest number of octets or packets."

::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE

SYNTAX NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixTopNTable.

The nlMatrixTopNControlIndex value in the index identifies the nlMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is

nlMatrixTopNPktRate.3.10"

```
INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }  
::= { nlMatrixTopNTable 1 }
```

```
nlMatrixTopNEntry ::= SEQUENCE {  
    nlMatrixTopNIndex          Integer32,  
    nlMatrixTopNProtocolDirLocalIndex Integer32,  
    nlMatrixTopNSourceAddress  OCTET STRING,  
    nlMatrixTopNDestAddress    OCTET STRING,  
    nlMatrixTopNPktRate        Gauge32,  
    nlMatrixTopNReversePktRate Gauge32,  
    nlMatrixTopNOctetRate      Gauge32,  
    nlMatrixTopNReverseOctetRate  
    Gauge32  
}
```

nlMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in  
the nlMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the  
number of entries in this report.

If the value of nlMatrixTopNControlRateBase is equal to  
nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall  
be assigned to entries with decreasing values of  
nlMatrixTopNPktRate until index N is assigned or there are no  
more nlMatrixTopNEntries.

If the value of nlMatrixTopNControlRateBase is equal to  
nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex

shall be assigned to entries with decreasing values of  
nlMatrixTopNOctetRate until index N is assigned or there are  
no more nlMatrixTopNEntries."

```
::= { nlMatrixTopNEntry 1 }
```

nlMatrixTopNProtocolDirLocalIndex

OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { nlMatrixTopNEntry 2 }

#### nlMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixTopNEntry 3 }

#### nlMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET

STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

For example, if the nlMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixTopNEntry 4 }

#### nlMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object.

If the value of nlMatrixTopNControlRateBase is nlMatrixTopNPkts,

this variable will be used to sort this report."

::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object. (Note that the corresponding nlMatrixSDPkts object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, the sort of topN entries is based entirely on nlMatrixTopNPktRate, and not on the value of this object."

::= { nlMatrixTopNEntry 6 }

nlMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDOctets object. If the value of nlMatrixTopNControlRateBase is nlMatrixTopNOctets, this variable will be used to sort this report."

::= { nlMatrixTopNEntry 7 }

nlMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32



MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixDSOctets object. (Note that the corresponding nlMatrixSDOctets object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal

to nlMatrixTopNOctets, the sort of topN entries is based entirely on nlMatrixTopNOctetRate, and not on the value of this object."

::= { nlMatrixTopNEntry 8 }

-- Application Layer Functions

--

-- The application layer host, matrix, and matrixTopN functions report  
-- on protocol usage at the network layer or higher. Note that the  
-- use of the term application layer does not imply that only  
-- application-layer protocols are counted, rather it means that  
-- protocols up to and including the application layer are supported.

--

-- Application Layer Host Group

--

-- Counts the amount of traffic, by protocol, sent from and to each  
-- network address discovered by the probe.  
-- Implementation of this group requires implementation of the Network  
-- Layer Host Group.

alHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A collection of statistics for a particular protocol from a particular network address that has been discovered on an interface of this device.

The probe will populate this table for all protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or

has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses seen as the source or destination address in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address exists in the nlHostTable and will be deleted from this table if their address is deleted from the nlHostTable."

::= { alHost 1 }

alHostEntry OBJECT-TYPE

SYNTAX AIHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A conceptual row in the alHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the address.

The nlHostAddress value in the index identifies the network-layer address of this entry.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing in this entry is  
alHostOutPkts.1.783495.18.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlHostControlIndex, alHostTimeMark,

protocolDirLocalIndex,

nlHostAddress,

protocolDirLocalIndex }

::= { alHostTable 1 }

AIHostEntry ::= SEQUENCE {

alHostTimeMark TimeFilter,

alHostInPkts ZeroBasedCounter32,

alHostOutPkts ZeroBasedCounter32,

alHostInOctets ZeroBasedCounter32,

```
alHostOutOctets      ZeroBasedCounter32,  
alHostCreateTime    LastCreateTime  
}
```

alHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted to this address since it was added to the alHostTable. Note that this is the number

of link-layer

packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted by this address since it was added to the alHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address of this protocol type since it was added to the alHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 4 }

alHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address of this protocol type since it was added to the alHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alHostEntry 6 }

--

-- Application Layer Matrix Group

--

-- Counts the amount of traffic, by protocol, sent between each pair of network addresses discovered by the probe.

-- Implementation of this group requires implementation of the Network

-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all statistics from a particular address.

The probe will populate this table for all protocols in the protocol directory table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for all protocols seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address pair exists in the nlMatrixSDTable and will be deleted from this table if the address pair is deleted from the nlMatrixSDTable."

::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE

SYNTAX AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

The nlMatrixSDSourceAddress value in the index identifies the network-layer address of the source host in this conversation.

The nlMatrixSDDestAddress value in the index identifies the

network-layer address of the destination host in this conversation.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing of this entry is  
alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,  
        protocolDirLocalIndex,  
        nlMatrixSDSourceAddress, nlMatrixSDDestAddress,  
        protocolDirLocalIndex }  
 ::= { alMatrixSDTable 1 }
```

```
AlMatrixSDEntry ::= SEQUENCE {  
    alMatrixSDTimeMark      TimeFilter,
```

```
    alMatrixSDPkts          ZeroBasedCounter32,  
    alMatrixSDOctets        ZeroBasedCounter32,  
    alMatrixSDCreateTime    LastCreateTime  
}
```

alMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { alMatrixSDEntry 1 }
```

alMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted

from the source address to the destination address

since this entry was added to the alMatrixSDTable. Note that this is the number of link-layer packets, so if a single

network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixSDEntry 2 }

alMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime

OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the destination address and then by the source address to make it convenient to collect all statistics to a particular address.

The probe will populate this table for all protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for all protocols seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address pair exists in the nlMatrixDSTable and will be deleted from this table if the address pair is deleted from the nlMatrixDSTable."

::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE

SYNTAX AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the alMatrixDSSourceAddress and alMatrixDSDestAddress.

The nlMatrixDSDestAddress value in the index identifies the network-layer address of the destination host in this

conversation.

The nlMatrixDSSourceAddress value in the index identifies the network-layer address of the source host in this conversation.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing of this entry is

alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex,



```
alMatrixDSTimeMark,  
    protocolDirLocalIndex,  
    nlMatrixDSDestAddress, nlMatrixDSSourceAddress,  
    protocolDirLocalIndex }  
::= { alMatrixDSTable 1 }
```

```
AlMatrixDSEntry ::= SEQUENCE {  
    alMatrixDSTimeMark      TimeFilter,  
    alMatrixDSPkts         ZeroBasedCounter32,  
    alMatrixDSOctets       ZeroBasedCounter32,  
    alMatrixDSCreateTime   LastCreateTime  
}
```

alMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { alMatrixDSEntry 1 }
```

alMatrixDSPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted from the source address to the destination address

since this entry was added to the alMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

```
::= { alMatrixDSEntry 2 }
```

alMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets

in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

```
::= { alMatrixDSEntry 3 }
```

alMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

```
::= { alMatrixDSEntry 4 }
```

alMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a report of the top N matrix entries according to a selected metric."

```
::= { alMatrix 3 }
```

alMatrixTopNControlEntry OBJECT-TYPE

SYNTAX AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNControlTable.

An example of the indexing of this table is

alMatrixTopNControlDuration.3"

```
INDEX { alMatrixTopNControlIndex }
```

```
::= { alMatrixTopNControlTable 1 }
```

AlMatrixTopNControlEntry

```
::= SEQUENCE {
```

```
alMatrixTopNControlIndex Integer32,
```

```
alMatrixTopNControlMatrixIndex Integer32,
```

```
alMatrixTopNControlRateBase INTEGER,
```

```

alMatrixTopNControlTimeRemaining Integer32,
alMatrixTopNControlGeneratedReports Counter32,
alMatrixTopNControlDuration Integer32,
alMatrixTopNControlRequestedSize Integer32,
alMatrixTopNControlGrantedSize Integer32,
alMatrixTopNControlStartTime TimeStamp,
alMatrixTopNControlOwner OwnerString,
alMatrixTopNControlStatus RowStatus
}

```

alMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNControlTable. Each such entry defines one topN report prepared for one interface."

::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The alMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The alMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

```

    alMatrixTopNTerminalsPkts(1),
    alMatrixTopNTerminalsOctets(2),
    alMatrixTopNAllPkts(3),
    alMatrixTopNAllOctets(4),
    alMatrixTopNTerminalsHighCapacityPkts(5),
    alMatrixTopNTerminalsHighCapacityOctets(6),

```

```

    alMatrixTopNAllHighCapacityPkts(7),

```

```
    alMatrixTopNAllHighCapacityOctets(8)
  }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object controls which alMatrix[SD/DS] entry that the alMatrixTopNEntries are sorted by, which view of the matrix table that will be used, as well as which table the results will be reported in.

The values alMatrixTopNTerminalsPkts, alMatrixTopNTerminalsOctets, alMatrixTopNTerminalsHighCapacityPkts, and alMatrixTopNTerminalsHighCapacityOctets cause collection only from protocols that have no child protocols that are counted. The values alMatrixTopNAllPkts, alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and alMatrixTopNAllHighCapacityOctets cause collection from all alMatrix entries.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

```
::= { alMatrixTopNControlEntry
3 }
```

alMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this report and is immediately loaded into the associated alMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of alMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly, checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value

of this object is non-zero, it decrements  
by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made  
accessible in the alMatrixTopNTable, overwriting any report  
that may be there.

When this object is modified by the management station, any  
associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used  
in the hostTopNTable)."

DEFVAL { 1800 }  
::= { alMatrixTopNControlEntry 4 }

alMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of reports that have been generated by this entry."

::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The number of seconds that this report has collected  
during the last sampling interval.

When the associated alMatrixTopNControlTimeRemaining object  
is set, this object shall be set by the probe to the  
same value and shall not be modified until the next  
time the alMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been  
requested for this alMatrixTopNControlEntry."

::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set alMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }  
::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When the associated alMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated alMatrixTopNControlRequestedSize object.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNOctetRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to whether zero-valued entries are available."

::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated alMatrixTopNControlTimeRemaining object was modified to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."  
::= { alMatrixTopNControlEntry 9 }

alMatrixTopNControlOwner OBJECT-TYPE

SYNTAX OwnerString  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."  
::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this alMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the alMatrixTopNTable shall be deleted by the agent."

::= { alMatrixTopNControlEntry  
11 }

alMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"A set of statistics for those application-layer matrix

entries that have counted the highest number of octets or packets."

::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE

SYNTAX AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNTable.

The alMatrixTopNControlIndex value in the index identifies the alMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is

alMatrixTopNPktRate.3.10"

INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }

::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {

alMatrixTopNIndex Integer32,

alMatrixTopNProtocolDirLocalIndex Integer32,

alMatrixTopNSourceAddress OCTET STRING,

alMatrixTopNDestAddress OCTET STRING,

alMatrixTopNAppProtocolDirLocalIndex Integer32,

alMatrixTopNPktRate Gauge32,

alMatrixTopNReversePktRate Gauge32,

alMatrixTopNOctetRate Gauge32,

alMatrixTopNReverseOctetRate Gauge32

}

alMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the number of entries in this report.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing



values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNPktRate until index N is

assigned or there are no more alMatrixTopNEntries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNOctetRate until index N is assigned or there are no more alMatrixTopNEntries."  
::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this

conversation.

This is represented as an octet string with specific semantics and length as identified by the associated `alMatrixTopNProtocolDirLocalIndex`.

For example, if the `alMatrixTopNProtocolDirLocalIndex` indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

```
::= { alMatrixTopNEntry 4 }
```

`alMatrixTopNAppProtocolDirLocalIndex` OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of the protocol counted by this matrix entry."

```
::= { alMatrixTopNEntry 5 }
```

`alMatrixTopNPktRate` OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the `alMatrixSDPkts` object.

If the value of `alMatrixTopNControlRateBase` is `alMatrixTopNTerminalsPkts` or `alMatrixTopNAllPkts`, this variable will be used to sort this report."

```
::= { alMatrixTopNEntry 6 }
```

`alMatrixTopNReversePktRate` OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the

alMatrixDSPkts object. (Note that the corresponding alMatrixSDPkts object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort of topN entries is based entirely on alMatrixTopNPktRate, and not on the value of this object."

::= { alMatrixTopNEntry 7 }

#### alMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting

the alMatrixSDOctets object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this variable will be used to sort this report."

::= { alMatrixTopNEntry 8 }

#### alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSOctets object. (Note that the corresponding alMatrixSDOctets object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the sort of topN entries is based entirely on

alMatrixTopNOctetRate, and not on the value of this object."

```

 ::= { alMatrixTopNEntry 9 }

--
-- User History Collection Group (usrHistory)
--
-- The usrHistory group combines mechanisms seen in the alarm and
-- history groups to provide user-specified history collection,
-- utilizing two additional control tables and one additional data
-- table. This function has traditionally been done by NMS
-- applications, via periodic polling. The usrHistory group allows
-- this task to be offloaded to an RMON probe.
--
-- Data (an ASN.1 INTEGER based object) is collected in the same
-- manner as any history data table (e.g., etherHistoryTable) except
-- that the user specifies the MIB instances to be collected. Objects
-- are collected in bucket-groups, with the intent that all MIB
-- instances in the same bucket-group are collected as atomically as
-- possible by the RMON probe.
--
-- The usrHistoryControlTable is a one-dimensional read-create table.
-- Each row configures
a collection of user history buckets, much
-- the same as a historyControlEntry, except that the creation of a
-- row in this table will cause one or more associated instances in
-- the usrHistoryObjectTable to be created. The user specifies the
-- number of bucket elements (rows in the usrHistoryObjectTable)
-- requested, as well as the number of buckets requested.
--
-- The usrHistoryObjectTable is a 2-d read-write table.
-- Each row configures a single MIB instance to be collected.
-- All rows with the same major index constitute a bucket-group.
--
-- The usrHistoryTable is a 3-d read-only table containing

-- the data of associated usrHistoryControlEntries. Each
-- entry represents the value of a single MIB instance
-- during a specific sampling interval (or the rate of
-- change during the interval).
--
-- A sample value is stored in two objects - an absolute value and
-- a status object. This allows numbers from -(2G-1) to +4G to be
-- stored. The status object also indicates
whether a sample is
-- valid. This allows data collection to continue if periodic
-- retrieval of a particular instance fails for any reason.
--

```

```
-- Row Creation Order Relationships
--
-- The static nature of the usrHistoryObjectTable creates
-- some row creation/modification issues. The rows in this
-- table need to be set before the associated
-- usrHistoryControlEntry can be activated.
--
-- Note that the usrHistoryObject entries associated with a
-- particular usrHistoryControlEntry are not required to
-- be active before the control entry is activated. However,
-- the usrHistory data entries associated with an inactive
-- usrHistoryObject entry will be inactive (i.e.,
-- usrHistoryValStatus == valueNotAvailable).
--
```

```
usrHistoryControlTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UsrHistoryControlEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A list of data-collection configuration entries."
    ::= { usrHistory 1 }
```

```
usrHistoryControlEntry OBJECT-TYPE
    SYNTAX UsrHistoryControlEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A list of parameters that set up a group of user-defined
        MIB objects to be sampled periodically (called a
        bucket-group).

        For example, an instance of usrHistoryControlInterval
        might be named usrHistoryControlInterval.1"
    INDEX { usrHistoryControlIndex }
    ::= { usrHistoryControlTable 1 }
```

```
UsrHistoryControlEntry ::= SEQUENCE {
    usrHistoryControlIndex      Integer32,
    usrHistoryControlObjects    Integer32,
    usrHistoryControlBucketsRequested Integer32,
    usrHistoryControlBucketsGranted Integer32,
    usrHistoryControlInterval   Integer32,
    usrHistoryControlOwner      OwnerString,
    usrHistoryControlStatus     RowStatus
```

}

usrHistoryControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the usrHistoryControlTable. Each such entry defines a set of samples at a particular interval for a specified set of MIB instances available from the managed system."

::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of MIB objects to be collected in the portion of usrHistoryTable associated with this usrHistoryControlEntry.

This object may not be modified if the associated instance of usrHistoryControlStatus is equal to active(1)."

::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The requested number of discrete time intervals over which data is to be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When this object is created or modified, the probe should set usrHistoryControlBucketsGranted as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 50 }

::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of discrete sampling intervals over which data shall be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When the associated usrHistoryControlBucketsRequested object is created or modified, the probe should set this object as closely to the requested value as possible for the particular probe implementation and available resources. The probe must not lower this value except as a result of a modification to the associated usrHistoryControlBucketsRequested object.

The associated usrHistoryControlBucketsRequested object should be set before or at the same time as this object to allow the probe to accurately estimate the resources required for this usrHistoryControlEntry.

There will be times when the actual number of buckets associated with this entry is less than the value of this object. In this case, at the end of each sampling interval, a new bucket will be added to the usrHistoryTable.

When the number of buckets reaches the value of this object and a new bucket is to be added to the usrHistoryTable, the oldest bucket associated with this usrHistoryControlEntry shall be deleted by the agent so that the new bucket can be added.

When the value of this object changes to a value less than the current value, entries are deleted from the usrHistoryTable associated with this usrHistoryControlEntry.

Enough of the oldest of these entries shall be deleted by the agent so that their number remains less than or equal to the new value of this object.

When the value of this object changes to a value greater than the current value, the number of associated usrHistory entries may be allowed to grow."

::= { usrHistoryControlEntry 4 }

usrHistoryControlInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interval in seconds over which the data is sampled for each bucket in the part of the usrHistory table associated with this usrHistoryControlEntry.

Because the counters in a bucket may overflow at their maximum value with no indication, a prudent manager will take into account the possibility of overflow in any of the associated counters. It is important to consider the

minimum time in which any counter could overflow on a particular media type and to set the usrHistoryControlInterval object to a value less than this interval.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

DEFVAL { 1800 }

::= { usrHistoryControlEntry 5 }

usrHistoryControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this variable history control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries

in the usrHistoryTable shall be deleted."

::= { usrHistoryControlEntry 7 }

-- Object table



usrHistoryObjectTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE

SYNTAX UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of MIB instances to be sampled periodically.

Entries in this table are created when an associated  
usrHistoryControlObjects object is created.

The usrHistoryControlIndex value in the index is  
that of the associated usrHistoryControlEntry.

For example, an instance of usrHistoryObjectVariable might be  
usrHistoryObjectVariable.1.3"

INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }

::= { usrHistoryObjectTable 1 }

UsrHistoryObjectEntry ::= SEQUENCE {

usrHistoryObjectIndex Integer32,  
usrHistoryObjectVariable OBJECT IDENTIFIER,  
usrHistoryObjectSampleType INTEGER  
}

usrHistoryObjectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index used to uniquely identify an entry in the  
usrHistoryObject table. Each such entry defines a  
MIB instance to be collected periodically."

::= { usrHistoryObjectEntry 1 }

usrHistoryObjectVariable OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object identifier of the particular variable to be

sampled.

Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.

Because SNMP access control is articulated entirely in terms of the contents of MIB views, no access control mechanism

exists that can restrict the value of this object to identify

only those objects that exist in a particular MIB view.

Because there is thus no acceptable means of restricting the read access that could be obtained through the user history mechanism, the probe must only grant write access to this object in those views that have read access to all objects on the probe. See USM [RFC3414] and VACM [RFC3415] for more information.

During a set operation, if the supplied variable name is not available in the selected MIB view, a badValue error must be returned.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE

SYNTAX INTEGER {

absoluteValue(1),

deltaValue(2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The method of sampling the selected variable for storage in the usrHistoryTable.

If the value of this object is absoluteValue(1), the value of the selected variable will be copied directly into the history

bucket.

If the value of this object is `deltaValue(2)`, the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket. If the associated `usrHistoryObjectVariable` instance could not be obtained at the previous sample interval, then a delta sample is not possible, and the value of the associated `usrHistoryValStatus` object for this interval will be `valueNotAvailable(1)`.

This object may not be modified if the associated `usrHistoryControlStatus` object is equal to `active(1)`."

```
::= { usrHistoryObjectEntry 3 }
```

```
-- data table
```

```
usrHistoryTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF UsrHistoryEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A list of user-defined history entries."
```

```
::= { usrHistory 3 }
```

```
usrHistoryEntry OBJECT-TYPE
```

```
SYNTAX UsrHistoryEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A historical sample of user-defined variables. This sample is associated with the usrHistoryControlEntry that set up the parameters for a regular collection of these samples.
```

```
The usrHistoryControlIndex value in the index identifies the usrHistoryControlEntry on whose behalf this entry was created.
```

```
The usrHistoryObjectIndex value in the index identifies the usrHistoryObjectEntry on whose behalf this entry was created.
```

```
For example, an instance of usrHistoryAbsValue, which represents the 14th sample of a variable collected as specified by usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5, would be named usrHistoryAbsValue.1.14.5"
```

```
INDEX { usrHistoryControlIndex, usrHistorySampleIndex,  
        usrHistoryObjectIndex }
```

```
::= { usrHistoryTable 1 }
```

```
UsrHistoryEntry ::= SEQUENCE {
    usrHistorySampleIndex Integer32,
    usrHistoryIntervalStart TimeStamp,
    usrHistoryIntervalEnd TimeStamp,
    usrHistoryAbsValue Gauge32,
    usrHistoryValStatus INTEGER
}
```

usrHistorySampleIndex OBJECT-TYPE  
SYNTAX Integer32 (1..2147483647)  
MAX-ACCESS not-accessible  
STATUS current

#### DESCRIPTION

"An index that uniquely identifies the particular sample this entry represents among all samples associated with the same usrHistoryControlEntry. This index starts at 1 and increases by one as each new sample is taken."

::= { usrHistoryEntry 1 }

usrHistoryIntervalStart OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"The value of sysUpTime at the start of the interval over which this sample was measured. If the probe keeps track of the time of day, it should start the first sample of the history at a time such that when the next hour of the day begins, a sample is started at that instant.

Note that following this rule may require that the probe delay collecting the first sample of the history, as each sample must be of the same interval. Also note that the sample that is currently being collected is not accessible in this table until the end of its interval."

::= { usrHistoryEntry 2 }

usrHistoryIntervalEnd OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"The value of sysUpTime at the end of the interval over which

this sample was measured."  
 ::= { usrHistoryEntry 3 }

usrHistoryAbsValue OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The absolute value (i.e., unsigned value) of the

user-specified statistic during the last sampling period. The value during the current sampling period is not made available until the period is completed.

To obtain the true value for this sampling interval, the associated instance of usrHistoryValStatus must be checked, and usrHistoryAbsValue adjusted as necessary.

If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of usrHistoryValStatus will be set to 'valueNotAvailable(1)'.

The access control check prescribed in the definition of usrHistoryObjectVariable SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of usrHistoryValStatus will be set to 'valueNotAvailable(1)'."

::= { usrHistoryEntry  
 4 }

usrHistoryValStatus OBJECT-TYPE

SYNTAX INTEGER {

valueNotAvailable(1),

valuePositive(2),

valueNegative(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the validity and sign of the data in the associated instance of usrHistoryAbsValue.

If the MIB instance could not be accessed during the sampling interval, then 'valueNotAvailable(1)' will be returned.

If the sample is valid and the actual value of the sample is greater than or equal to zero, then 'valuePositive(2)' is returned.

If the sample is valid and the actual value of the sample is less than zero, 'valueNegative(3)' will be returned. The associated instance of usrHistoryAbsValue should be multiplied by -1 to obtain the true sample value."

```
::= { usrHistoryEntry 5 }
```

```
-- The Probe Configuration Group
```

```
--
```

```
-- This group controls the configuration of various operating
```

```
--
```

```
parameters of the probe.
```

```
ControlString ::= TEXTUAL-CONVENTION
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This data type is used to communicate with a modem or a
```

```
serial data switch. A ControlString contains embedded commands to control how the device will interact with the remote device through the serial interface. Commands are represented as two-character sequences beginning with the '^' character.
```

```
The following commands are recognized by the device (note that command characters are case sensitive):
```

```
^s Send string that follows, which is terminated by the next command or the end of string.
```

```
^c Delay for the number of seconds that follows. Toss out any data received rather than store it in a buffer for parsing.
```

```
^t Set timeout to the value represented by the decimal digits that follow. The default timeout is 20
```

```
seconds. Note that this timeout may be overridden by a smaller serialTimeout configured for the associated serial interface (see serialConfigTable).
```

```
^w Wait for the reply string that follows, which is terminated by the next command or the end of string.
```

Partial and case-insensitive matching is applied, i.e., if the reply string (any case combination) is found anywhere in the received string, then the a match is found. If the current timeout elapses without a match, then the remaining control string is ignored.

^! The ^ character.

^d Delay the number of seconds specified by the decimal digits that follow.

^b Send break for the number of milliseconds specified by the decimal digits that follow. If no digits follow, break will be enforced for 250 milliseconds by default.

The following ASCII control characters may be inserted into the '^s' send string or the '^w' reply string:

^@ 0x00  
^A 0x01  
..  
^M 0x0D  
..  
^Z 0x1A  
^[ 0x1B  
^ 0x1C  
^] 0x1D  
^^ 0x1E  
^\_ 0x1F

Binary data may also be inserted into the data stream. The control sequence for each byte of binary data is ^0x##, where ## is the hexadecimal representation of the data byte. Two ASCII characters (0-9, a-f, A-F) must follow the '^0x' control prefix. For example, '^0x0D^0x0A' is interpreted as a carriage return followed by a line feed."

SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE

SYNTAX BITS {  
etherStats(0),  
historyControl(1),  
etherHistory(2),  
alarm(3),  
hosts(4),  
hostTopN(5),  
matrix(6),  
filter(7),

```

    capture(8),
    event(9),
    tokenRingMLStats(10),
    tokenRingPStats(11),
    tokenRingMLHistory(12),
    tokenRingPHistory(13),
    ringStation(14),
    ringStationOrder(15),
    ringStationConfig(16),
    sourceRouting(17),
    protocolDirectory(18),
    protocolDistribution(19),
    addressMapping(20),
    nlHost(21),
    nlMatrix(22),
    alHost(23),
    alMatrix(24),
    usrHistory(25),
    probeConfig(26)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "An indication of the RMON MIB groups supported
    on at least one interface by this probe."
 ::= { probeConfig 1 }

```

```

probeSoftwareRev OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..15))
MAX-ACCESS read-only

```

```

STATUS current
DESCRIPTION
    "The software revision of this device. This string will have
    a zero length if the revision is unknown."
 ::= { probeConfig 2 }

```

```

probeHardwareRev
OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..31))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The hardware revision of this device. This string will have
    a zero length if the revision is unknown."
 ::= { probeConfig 3 }

```



probeDateTime OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 8 | 11))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Probe's current date and time.

| field | octets | contents                 | range     |
|-------|--------|--------------------------|-----------|
| 1     | 1-2    | year                     | 0..65536  |
| 2     | 3      | month                    | 1..12     |
| 3     | 4      | day                      | 1..31     |
| 4     | 5      | hour                     | 0..23     |
| 5     | 6      | minutes                  | 0..59     |
| 6     | 7      | seconds                  | 0..60     |
|       |        | (use 60 for leap-second) |           |
| 7     | 8      | deci-seconds             |           |
|       |        | 0..9                     |           |
| 8     | 9      | direction from UTC       | '+' / '-' |
| 9     | 10     | hours from UTC           | 0..11     |
| 10    | 11     | minutes from UTC         | 0..59     |

For example, Tuesday May 26, 1992 at 1:30:15 PM  
EDT would be displayed as:

1992-5-26,13:30:15.0,-4:0

Note that if only local time is known, then  
time zone information (fields 8-10) is not  
present, and that if no time information is known, the  
null string is returned."

::= { probeConfig 4 }

probeResetControl OBJECT-TYPE

SYNTAX INTEGER {  
    running(1),  
    warmBoot(2),  
    coldBoot(3)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to warmBoot(2) causes the device to

restart the application software with current configuration parameters saved in non-volatile memory. Setting this

object to coldBoot(3) causes the device to reinitialize configuration parameters in non-volatile memory to default values and to restart the application software. When the device is running normally, this variable has a value of running(1)."

::= { probeConfig 5 }

-- The following download objects do not restrict an implementation  
-- from implementing additional download mechanisms (controlled in an  
-- implementation-specific manner). Further, in the case where the RMON  
-- agent shares a processor with other types of systems, the  
-- implementation is not required to download those non-RMON functions  
-- with this mechanism.

probeDownloadFile OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..127))

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The file name to be downloaded from the TFTP server when a download is next requested via this MIB. This value is set to the zero-length string when no file name

has been specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 6 }

probeDownloadTFTPServer OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server that contains the boot image to load when a download is next requested via this MIB.

This value is set to '0.0.0.0' when no IP address has been

specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 7 }

probeDownloadAction OBJECT-TYPE

SYNTAX INTEGER {  
    notDownloading(1),  
    downloadToPROM(2),  
    downloadToRAM(3)  
}

MAX-ACCESS

read-write

STATUS deprecated

DESCRIPTION

"When this object is set to downloadToRAM(3) or downloadToPROM(2), the device will discontinue its normal operation and begin download of the image specified by probeDownloadFile from the server specified by probeDownloadTFTPServer using the TFTP protocol. If downloadToRAM(3) is specified, the new image is copied to RAM only (the old image remains unaltered in the flash EPROM). If downloadToPROM(2) is specified, the new image is written to the flash EPROM memory after its checksum has been verified to be correct. When the download process is completed, the device will warm boot to restart the newly loaded application. When the device is not downloading, this object will have a value of notDownloading(1).

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to

meet the requirements of a Draft Standard."

::= { probeConfig 8 }

probeDownloadStatus OBJECT-TYPE

SYNTAX INTEGER {  
    downloadSuccess(1),  
    downloadStatusUnknown(2),  
    downloadGeneralError(3),  
    downloadNoResponseFromServer(4),  
    downloadChecksumError(5),  
    downloadIncompatibleImage(6),  
    downloadTftpFileNotFound(7),  
    downloadTftpAccessViolation(8)  
}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The status of the last download procedure, if any. This object will have a value of downloadStatusUnknown(2) if no download process has been performed.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 9 }

serialConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of serial interface configuration entries. This data will be stored in non-volatile memory and preserved across probe resets or power loss.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 10 }

serialConfigEntry OBJECT-TYPE

SYNTAX SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular serial interface on this device. If the device has no serial interfaces, this table is empty.

The index is composed of the ifIndex assigned to this serial line interface."

INDEX { ifIndex }

::=

{ serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {

serialMode INTEGER,

serialProtocol INTEGER,

serialTimeout Integer32,

serialModemInitString ControlString,

serialModemHangUpString ControlString,

serialModemConnectResp DisplayString,

serialModemNoConnectResp DisplayString,

serialDialoutTimeout Integer32,

serialStatus RowStatus  
}

serialMode OBJECT-TYPE

SYNTAX INTEGER {  
    direct(1),  
    modem(2)  
}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of incoming connection to be expected on this serial interface."

DEFVAL { direct }

::= { serialConfigEntry 1 }

serialProtocol OBJECT-TYPE

SYNTAX INTEGER {  
    other(1),  
    slip(2),  
    ppp(3)  
}

MAX-ACCESS read-create

STATUS

deprecated

DESCRIPTION

"The type of data link encapsulation to be used on this serial interface."

DEFVAL { slip }

::= { serialConfigEntry 2 }

serialTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the Management Station has initiated the conversation over the serial link. This variable represents the number of seconds of inactivity allowed before terminating the connection on this serial interface. Use the serialDialoutTimeout in the case where the probe has initiated the connection for the purpose of sending a trap."

DEFVAL { 300 }

::= { serialConfigEntry 3 }

serialModemInitString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"A control string that controls how a modem attached to this

serial interface should be initialized. The initialization is performed once during startup and again after each connection is terminated if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."

::= { serialConfigEntry 4 }

serialModemHangUpString OBJECT-TYPE

SYNTAX ControlString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"A control string that specifies how to disconnect a modem connection on this serial interface. This object is only meaningful if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^d2^s+++^d2^sATH0^M^d2'."

::= { serialConfigEntry 5 }

serialModemConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"An ASCII string containing substrings that describe the expected modem connection response code and associated bps rate. The substrings are delimited by the first character in the string, for example:

```
/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600
```

will be interpreted as:

response code bps rate

```
CONNECT      300
CONNECT 1200 1200
CONNECT 2400 2400
CONNECT 4800 4800
CONNECT 9600 9600
```

The agent will use the information in this string to adjust the bps rate of this serial interface once a modem connection is established.

A value that is appropriate for a wide variety of modems is:

```
"/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/
CONNECT
19200/19200/CONNECT 38400/38400/."
::= { serialConfigEntry 6 }
```

serialModemNoConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"An ASCII string containing response codes that may be generated by a modem to report the reason why a connection attempt has failed. The response codes are delimited by the first character in the string, for example:

```
/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/
```

If one of these response codes is received via this serial interface while attempting to make a modem connection, the agent will issue the hang up command as specified by serialModemHangUpString.

A value that is appropriate for a wide variety of modems is:

```
"/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/."
::= { serialConfigEntry 7 }
```

serialDialoutTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the probe initiates the serial connection with the intention of contacting a management station. This variable represents the number

of seconds of inactivity allowed before terminating the connection on this serial interface."

DEFVAL { 20 }

::= { serialConfigEntry 8 }

serialStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { serialConfigEntry 9 }

netConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of netConfigEntries.

This table has been deprecated, as it has not had enough independent

implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 11 }

netConfigEntry OBJECT-TYPE

SYNTAX NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular network interface on this device. If the device has no network interface, this table is empty.

The index is composed of the ifIndex assigned to the corresponding interface."

INDEX { ifIndex }

::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {

netConfigIPAddress IpAddress,

netConfigSubnetMask IpAddress,



```
netConfigStatus      RowStatus
}
```

#### netConfigIPAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"The IP address of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on the network, this value must be configured (e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 1 }

#### netConfigSubnetMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"The subnet mask of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on

the network, this value must be configured

(e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 2 }

#### netConfigStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

#### DESCRIPTION

"The status of this netConfigEntry.

An entry may not exist in the active state unless all

objects in the entry have an appropriate value."  
 ::= { netConfigEntry 3 }

netDefaultGateway OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP Address of the default gateway. If this value is undefined or unknown, it shall have the value 0.0.0.0."

::= { probeConfig 12 }

-- Trap Destination Table

--

-- This table defines the destination addresses for traps generated

-- from the device. This table maps a community to one or more trap destination entries.

--

-- The same trap will be sent to all destinations specified in the entries that have the same trapDestCommunity as the eventCommunity (as defined by RMON MIB), as long as no access control mechanism (e.g., VACM) prohibits sending to one or more of the destinations. Information in this table will be stored in non-volatile memory.

-- If the device has gone through a hard restart, this information will be reset to its default state.

trapDestTable OBJECT-TYPE

SYNTAX SEQUENCE OF TrapDestEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A list of trap destination entries."

::= { probeConfig 13 }

trapDestEntry OBJECT-TYPE

SYNTAX TrapDestEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This entry includes a destination IP address to which traps are sent for this community."

INDEX { trapDestIndex }

::= { trapDestTable 1 }

```

TrapDestEntry ::= SEQUENCE {
    trapDestIndex      Integer32,
    trapDestCommunity  OCTET STRING,
    trapDestProtocol   INTEGER,
    trapDestAddress    OCTET STRING,
    trapDestOwner      OwnerString,
    trapDestStatus     RowStatus
}

```

```

trapDestIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..65535)
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "A value that uniquely identifies this trapDestEntry."
    ::= { trapDestEntry 1 }

```

```

trapDestCommunity OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..127))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "A community to which this destination address belongs.
        This entry is associated with any eventEntries in the RMON
        MIB whose value of eventCommunity is equal to the value of
        this object. Every time an associated event entry sends a

```

trap due to an event, that trap will be sent to each

address in the trapDestTable with a trapDestCommunity equal to eventCommunity, as long as no access control mechanism precludes it (e.g., VACM).

This object may not be modified if the associated trapDestStatus object is equal to active(1)."

```

::= { trapDestEntry 2 }

```

```

trapDestProtocol OBJECT-TYPE
    SYNTAX      INTEGER {
        ip(1),
        ipx(2)
    }
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The protocol with which this trap is to be sent."

```

::= { trapDestEntry 3 }

trapDestAddress OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The destination address for traps on behalf of this entry.

If the associated trapDestProtocol object is equal to ip(1),  
the encoding of this object is the same as the snmpUDPAddress  
textual

convention in RFC 3417, 'Transport Mappings for the

Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpUDPAddress of length 6:

--

-- octets contents encoding

-- 1-4 IP-address network-byte order

-- 5-6 UDP-port network-byte order

If the associated trapDestProtocol object is equal to ipx(2),  
the encoding of this object is the same as the snmpIPXAddress  
textual convention in RFC 3417, 'Transport Mappings for the  
Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpIPXAddress of length 12:

--

-- octets contents encoding

-- 1-4 network-number network-byte order

-- 5-10 physical-address network-byte order

-- 11-12 socket-number network-byte order

This object may not be modified if the associated

trapDestStatus object

is equal to active(1)."

::= { trapDestEntry 4 }

trapDestOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is  
therefore using the resources assigned to it."

::= { trapDestEntry 5 }

trapDestStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this trap destination entry.

An entry may not exist in the active state unless all  
objects in the entry have an appropriate value."

::= { trapDestEntry 6 }

-- Serial Connection Table

--

-- The device may communicate with a management station using  
-- SLIP. In order for the device to send traps via SLIP, it must  
-- be able to initiate a connection over the serial interface. The  
-- serialConnectionTable stores the parameters for such connection  
-- initiation.

serialConnectionTable OBJECT-TYPE

SYNTAX SEQUENCE

OF SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A list of serialConnectionEntries.

This table has been deprecated, as it has not had enough  
independent implementations to demonstrate interoperability  
to meet the requirements of a Draft Standard."

::= { probeConfig 14 }

serialConnectionEntry OBJECT-TYPE

SYNTAX SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Configuration for a SLIP link over a serial line."

INDEX { serialConnectIndex }

::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {

serialConnectIndex Integer32,

serialConnectDestIpAddress IpAddress,

serialConnectType INTEGER,

```
serialConnectDialString      ControlString,
serialConnectSwitchConnectSeq ControlString,
serialConnectSwitchDisconnectSeq ControlString,
serialConnectSwitchResetSeq  ControlString,
serialConnectOwner           OwnerString,
serialConnectStatus          RowStatus
}
```

serialConnectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A value that uniquely identifies this serialConnection entry."

::= { serialConnectionEntry 1 }

serialConnectDestIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP Address that can be reached at the other end of this serial connection."

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 2 }

serialConnectType OBJECT-TYPE

SYNTAX INTEGER {

direct(1),

modem(2),

switch(3),

modemSwitch(4)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of outgoing connection to be made. If this object has the value direct(1), then a direct serial connection is assumed. If this object has the value modem(2), then serialConnectDialString will be used to make a modem

connection. If this object has the value switch(3), then serialConnectSwitchConnectSeq will be used to establish the connection over a serial data switch, and serialConnectSwitchDisconnectSeq will be used to terminate the connection. If this object has the value modem-switch(4), then a modem connection will be made first, followed by the switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

DEFVAL { direct }  
::= { serialConnectionEntry 3 }

serialConnectDialString OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to dial the phone number in order to establish a modem connection. The string should include the dialing prefix and suffix. For example: '^s^MATD9,888-1234^M' will instruct the Probe to send a carriage return, followed by the dialing prefix 'ATD', the phone number '9,888-1234', and a carriage return as the dialing suffix.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to establish a data switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 5 }

serialConnectSwitchDisconnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to terminate a data switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to reset a data switch in the event of a timeout.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 7 }

serialConnectOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { serialConnectionEntry 8 }

serialConnectStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConnectionEntry.

If the manager attempts to set this object to active(1) when the serialConnectType is set to modem(2) or modem-switch(4) and the serialConnectDialString is a zero-length string or cannot be correctly parsed as a ConnectString, the set request will be rejected with badValue(3).

If the manager attempts to set this object to active(1) when the serialConnectType is set to switch(3) or modem-switch(4) and the serialConnectSwitchConnectSeq, the serialConnectSwitchDisconnectSeq, or



the serialConnectSwitchResetSeq is a zero-length string  
or cannot be correctly parsed as a ConnectString,  
the set  
request will be rejected with badValue(3).

An entry may not exist in the active state unless all  
objects in the entry have an appropriate value."  
::= { serialConnectionEntry 9 }

--  
-- Extensions to the RMON 1 MIB for RMON 2 devices  
--  
-- These extensions include the standard LastCreateTime Textual  
-- Convention for all control tables, as well as an augmentation of  
-- the filter entry that provides variable-length offsets into  
-- packets.  
  
-- Each of the following, except for filterDroppedFrames, is a  
-- read-only object which, if implemented, automatically appears when  
-- the RMON1 row it is associated with is created.

etherStats2Table OBJECT-TYPE  
SYNTAX SEQUENCE OF EtherStats2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
::= { statistics 4 }

etherStats2Entry OBJECT-TYPE  
SYNTAX EtherStats2Entry  
MAX-ACCESS not-accessible  
STATUS  
current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { etherStatsEntry }  
::= { etherStats2Table 1 }

EtherStats2Entry ::= SEQUENCE {  
etherStatsDroppedFrames Counter32,  
etherStatsCreateTime LastCreateTime  
}

etherStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { etherStats2Entry  
1 }
```

etherStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

```
::= { etherStats2Entry 2 }
```

historyControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HistoryControl2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

```
::= { history 5 }
```

historyControl2Entry OBJECT-TYPE

SYNTAX HistoryControl2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

```
AUGMENTS { historyControlEntry }  
::= { historyControl2Table 1 }
```

```
HistoryControl2Entry ::= SEQUENCE {  
    historyControlDroppedFrames Counter32  
}
```

```
historyControlDroppedFrames  
OBJECT-TYPE  
SYNTAX Counter32
```

```
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION
```

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { historyControl2Entry 1 }
```

```
hostControl2Table OBJECT-TYPE  
SYNTAX SEQUENCE OF HostControl2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"Contains the RMON-2 augmentations to RMON-1."

```
::= { hosts 4 }
```

```
hostControl2Entry OBJECT-TYPE  
SYNTAX HostControl2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"Contains the RMON-2 augmentations to RMON-1."

```
AUGMENTS { hostControlEntry }  
::= { hostControl2Table 1 }
```

```
HostControl2Entry ::= SEQUENCE {
```

```
hostControlDroppedFrames Counter32,  
hostControlCreateTime LastCreateTime  
}
```

hostControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { hostControl2Entry 2 }

matrixControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF MatrixControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { matrix 4 }

matrixControl2Entry OBJECT-TYPE

SYNTAX MatrixControl2Entry

MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { matrixControlEntry }  
::= { matrixControl2Table 1 }

MatrixControl2Entry ::= SEQUENCE {  
matrixControlDroppedFrames Counter32,  
matrixControlCreateTime LastCreateTime  
}

matrixControlDroppedFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { matrixControl2Entry 1 }

matrixControlCreateTime OBJECT-TYPE  
SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this control entry was last

activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { matrixControl2Entry 2 }

channel2Table OBJECT-TYPE  
SYNTAX SEQUENCE OF Channel2Entry

MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
::= { filter 3 }

channel2Entry OBJECT-TYPE  
SYNTAX Channel2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { channelEntry }  
::= { channel2Table 1 }

Channel2Entry ::= SEQUENCE {  
channelDroppedFrames Counter32,  
channelCreateTime LastCreateTime  
}

channelDroppedFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The total number of frames that were received by the probe  
and therefore not accounted for in the \*StatsDropEvents,  
but  
that the probe chose not to count for this entry for  
whatever reason. Most often, this event occurs when the  
probe is out of some resources and decides to shed load from  
this collection.  
  
This count does not include packets that were not counted  
because they had MAC-layer errors.  
  
Note that, unlike the dropEvents counter, this number is the  
exact number of frames dropped."  
::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE  
SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { channel2Entry 2 }

tokenRingMLStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingMLStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 5 }

tokenRingMLStats2Entry OBJECT-TYPE

SYNTAX TokenRingMLStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingMLStatsEntry }

::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {

tokenRingMLStatsDroppedFrames Counter32,

tokenRingMLStatsCreateTime LastCreateTime

}

tokenRingMLStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe

chose not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { tokenRingMLStats2Entry 1 }
```

tokenRingMLStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

```
::= { tokenRingMLStats2Entry 2 }
```

tokenRingPStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

```
::= { statistics 6 }
```

tokenRingPStats2Entry OBJECT-TYPE

SYNTAX TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingPStatsEntry }

```
::= { tokenRingPStats2Table 1 }
```

TokenRingPStats2Entry ::= SEQUENCE {

tokenRingPStatsDroppedFrames Counter32,

tokenRingPStatsCreateTime LastCreateTime

}

tokenRingPStatsDroppedFrames OBJECT-TYPE



SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count

for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { tokenRingPStats2Entry 2 }

ringStationControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF RingStationControl2Entry  
MAX-ACCESS not-accessible  
STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 7 }

ringStationControl2Entry OBJECT-TYPE

SYNTAX RingStationControl2Entry

MAX-ACCESS not-accessible  
STATUS deprecated  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { ringStationControlEntry }  
::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {  
ringStationControlDroppedFrames Counter32,  
ringStationControlCreateTime LastCreateTime  
}

ringStationControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { ringStationControl2Entry 1 }

ringStationControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to

ensure that the table has not been deleted and recreated between polls."

::= { ringStationControl2Entry 2 }

sourceRoutingStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 8 }

sourceRoutingStats2Entry OBJECT-TYPE

SYNTAX SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { sourceRoutingStatsEntry }

::= { sourceRoutingStats2Table 1 }

SourceRoutingStats2Entry ::= SEQUENCE {

sourceRoutingStatsDroppedFrames Counter32,

sourceRoutingStatsCreateTime LastCreateTime

}

sourceRoutingStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose

not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { sourceRoutingStats2Entry 1 }

sourceRoutingStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides  
a variable-length packet filter feature to the  
RMON-1 filter table."

::= { filter 4 }

filter2Entry OBJECT-TYPE

SYNTAX Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides a variable-length packet filter feature to the  
RMON-1 filter table."

AUGMENTS { filterEntry }

::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {

filterProtocolDirDataLocalIndex Integer32,

filterProtocolDirLocalIndex Integer32

}

filterProtocolDirDataLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that  
it is associated with performs the following operations on  
every packet:

- 1) If the packet doesn't match the protocol directory entry  
identified by this object, discard the packet and exit  
(i.e., discard the packet if it

is not of the identified

protocol).

- 2) If the associated filterProtocolDirLocalIndex is non-zero and the packet doesn't match the protocol directory entry identified by that object, discard the packet and exit.
- 3) If the packet matches, perform the regular filter algorithm as if the beginning of this named protocol is the beginning of the packet, potentially applying the filterOffset value to move further into the packet."

DEFVAL { 0 }

::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that it is associated with will discard the packet if the packet doesn't match this protocol directory entry."

DEFVAL { 0 }

::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT

IDENTIFIER ::= { rmonConformance 1 }

rmon2MIBGroups OBJECT IDENTIFIER ::= { rmonConformance 2 }

rmon2MIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the RMON2 MIB"

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,  
 protocolDistributionGroup,  
 addressMapGroup,  
 nlHostGroup,  
 nlMatrixGroup,  
 usrHistoryGroup,  
 probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {

```
        nlMatrixTopNPkts(1),
        nlMatrixTopNOctets(2)
    }
DESCRIPTION
```

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is appropriate for systems that implement the Ethernet group of RMON [RFC2819]."

::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the RMON2 MIB with Application-Layer Enhancements."

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,  
 protocolDistributionGroup,  
 addressMapGroup,  
 nlHostGroup,  
 nlMatrixGroup,  
 alHostGroup,  
 alMatrixGroup,  
 usrHistoryGroup,  
 probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

```
SYNTAX  INTEGER {
        nlMatrixTopNPkts(1),
        nlMatrixTopNOctets(2)
    }
```

DESCRIPTION

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

OBJECT alMatrixTopNControlRateBase

```
SYNTAX  INTEGER {
```

```
alMatrixTopNTerminalsPkts(1),
alMatrixTopNTerminalsOctets(2),
alMatrixTopNAllPkts(3),
alMatrixTopNAllOctets(4)
}
```

DESCRIPTION

"Conformance to RMON2 requires only support for these

values of alMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory  
for systems  
that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is  
appropriate for systems that implement the Ethernet  
group of RMON [RFC2819]."

::= { rmon2MIBCompliances 2 }

protocolDirectoryGroup OBJECT-GROUP

OBJECTS { protocolDirLastChange,  
protocolDirLocalIndex, protocolDirDescr,  
protocolDirType, protocolDirAddressMapConfig,  
protocolDirHostConfig, protocolDirMatrixConfig,  
protocolDirOwner, protocolDirStatus }

STATUS current

DESCRIPTION

"Lists the inventory of protocols the probe has the  
capability of monitoring and allows the addition, deletion,  
and configuration of entries in this list."

::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP

OBJECTS { protocolDistControlDataSource,  
protocolDistControlDroppedFrames,  
protocolDistControlCreateTime,  
protocolDistControlOwner, protocolDistControlStatus,  
protocolDistStatsPkts, protocolDistStatsOctets }

STATUS current

DESCRIPTION

"Collects the relative amounts of octets and packets for the  
different protocols detected on a network segment."

::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP

OBJECTS { addressMapInserts, addressMapDeletes,  
addressMapMaxDesiredEntries,  
addressMapControlDataSource,  
addressMapControlDroppedFrames,  
addressMapControlOwner, addressMapControlStatus,  
addressMapPhysicalAddress,  
addressMapLastChange }

STATUS current

DESCRIPTION

"Lists MAC address to network address bindings discovered by the probe and what interface they were last seen on."

::= { rmon2MIBGroups 3 }

nlHostGroup OBJECT-GROUP

OBJECTS { nlHostControlDataSource,  
nlHostControlNIDroppedFrames, nlHostControlNIInserts,  
nlHostControlNIDeletes,  
nlHostControlNIMaxDesiredEntries,  
nlHostControlAIDroppedFrames, nlHostControlAIInserts,  
nlHostControlAIDeletes,  
nlHostControlAIMaxDesiredEntries, nlHostControlOwner,  
nlHostControlStatus, nlHostInPkts, nlHostOutPkts,  
nlHostInOctets, nlHostOutOctets,  
nlHostOutMacNonUnicastPkts, nlHostCreateTime }

STATUS current

DESCRIPTION

"Counts the amount of traffic sent from and to each network address discovered by the probe. Note that while the nlHostControlTable also has objects that control an optional alHostTable, implementation of the alHostTable is not required to fully implement this group."

::= { rmon2MIBGroups 4 }

nlMatrixGroup OBJECT-GROUP

OBJECTS { nlMatrixControlDataSource,  
nlMatrixControlNIDroppedFrames,  
nlMatrixControlNIInserts, nlMatrixControlNIDeletes,  
nlMatrixControlNIMaxDesiredEntries,  
nlMatrixControlAIDroppedFrames,  
nlMatrixControlAIInserts, nlMatrixControlAIDeletes,  
nlMatrixControlAIMaxDesiredEntries,  
nlMatrixControlOwner, nlMatrixControlStatus,



nlMatrixSDPkts, nlMatrixSDOctets, nlMatrixSDCreateTime,  
nlMatrixDSPkts, nlMatrixDSOctets, nlMatrixDSCreateTime,  
nlMatrixTopNControlMatrixIndex,  
nlMatrixTopNControlRateBase,  
nlMatrixTopNControlTimeRemaining,  
nlMatrixTopNControlGeneratedReports,  
nlMatrixTopNControlDuration,  
nlMatrixTopNControlRequestedSize,  
nlMatrixTopNControlGrantedSize,  
nlMatrixTopNControlStartTime,  
nlMatrixTopNControlOwner, nlMatrixTopNControlStatus,  
nlMatrixTopNProtocolDirLocalIndex,  
nlMatrixTopNSourceAddress,  
nlMatrixTopNDestAddress,  
nlMatrixTopNPktRate, nlMatrixTopNReversePktRate,

nlMatrixTopNOctetRate, nlMatrixTopNReverseOctetRate }

STATUS current

DESCRIPTION

"Counts the amount of traffic sent between each pair of network addresses discovered by the probe. Note that while the hlMatrixControlTable also has objects that control optional alMatrixTables, implementation of the alMatrixTables is not required to fully implement this group."

::= { rmon2MIBGroups 5 }

alHostGroup OBJECT-GROUP

OBJECTS { alHostInPkts, alHostOutPkts,  
alHostInOctets, alHostOutOctets, alHostCreateTime }

STATUS current

DESCRIPTION

"Counts the amount of traffic, by protocol, sent from and to each network address discovered by the probe. Implementation of this group requires implementation of the Network-Layer Host Group."

::= { rmon2MIBGroups 6 }

alMatrixGroup

OBJECT-GROUP

OBJECTS { alMatrixSDPkts, alMatrixSDOctets, alMatrixSDCreateTime,  
alMatrixDSPkts, alMatrixDSOctets, alMatrixDSCreateTime,  
alMatrixTopNControlMatrixIndex,  
alMatrixTopNControlRateBase,  
alMatrixTopNControlTimeRemaining,  
alMatrixTopNControlGeneratedReports,

```
    alMatrixTopNControlDuration,
    alMatrixTopNControlRequestedSize,
    alMatrixTopNControlGrantedSize,
    alMatrixTopNControlStartTime,
    alMatrixTopNControlOwner, alMatrixTopNControlStatus,
    alMatrixTopNProtocolDirLocalIndex,
    alMatrixTopNSourceAddress, alMatrixTopNNDestAddress,
    alMatrixTopNAppProtocolDirLocalIndex,
    alMatrixTopNPktRate, alMatrixTopNReversePktRate,
    alMatrixTopNOctetRate, alMatrixTopNReverseOctetRate }
```

STATUS current

DESCRIPTION

"Counts the amount of traffic, by protocol, sent between each pair of network addresses discovered by the probe. Implementation of this group requires implementation of the Network-Layer Matrix Group."

::= { rmon2MIBGroups 7 }

usrHistoryGroup OBJECT-GROUP

```
OBJECTS { usrHistoryControlObjects,
    usrHistoryControlBucketsRequested,
    usrHistoryControlBucketsGranted,
    usrHistoryControlInterval,
    usrHistoryControlOwner, usrHistoryControlStatus,
    usrHistoryObjectVariable, usrHistoryObjectSampleType,
    usrHistoryIntervalStart, usrHistoryIntervalEnd,
    usrHistoryAbsValue, usrHistoryValStatus }
```

STATUS current

DESCRIPTION

"The usrHistoryGroup provides user-defined collection of historical information from MIB objects on the probe."

::= { rmon2MIBGroups 8 }

probeInformationGroup OBJECT-GROUP

```
OBJECTS { probeCapabilities,
    probeSoftwareRev, probeHardwareRev, probeDateTime }
```

STATUS current

DESCRIPTION

"This group describes various operating parameters of the probe and controls the local time of the probe."

::= { rmon2MIBGroups 9 }

probeConfigurationGroup OBJECT-GROUP

```
OBJECTS { probeResetControl, probeDownloadFile,
    probeDownloadTFTPServer, probeDownloadAction,
```

probeDownloadStatus,  
serialMode, serialProtocol, serialTimeout,  
serialModemInitString, serialModemHangUpString,  
serialModemConnectResp, serialModemNoConnectResp,  
serialDialoutTimeout, serialStatus,  
netConfigIPAddress, netConfigSubnetMask,  
netConfigStatus, netDefaultGateway,  
trapDestCommunity, trapDestProtocol, trapDestAddress,  
trapDestOwner, trapDestStatus,  
serialConnectDestIpAddress, serialConnectType,  
serialConnectDialString, serialConnectSwitchConnectSeq,  
serialConnectSwitchDisconnectSeq,  
serialConnectSwitchResetSeq,  
serialConnectOwner, serialConnectStatus }

STATUS deprecated

DESCRIPTION

"This group controls the configuration of various operating parameters of the probe. This group is not referenced by any MODULE-COMPLIANCE macro because it is 'grandfathered' from more recent MIB review rules that would require it."

::= { rmon2MIBGroups 10 }

rmon1EnhancementGroup OBJECT-GROUP

OBJECTS { historyControlDroppedFrames, hostControlDroppedFrames,  
hostControlCreateTime, matrixControlDroppedFrames,  
matrixControlCreateTime, channelDroppedFrames,  
channelCreateTime, filterProtocolDirDataLocalIndex,  
filterProtocolDirLocalIndex }

STATUS current

DESCRIPTION

"This group adds some enhancements to RMON-1 that help management stations."

::= { rmon2MIBGroups 11 }

rmon1EthernetEnhancementGroup OBJECT-GROUP

OBJECTS { etherStatsDroppedFrames,  
etherStatsCreateTime }

STATUS current

DESCRIPTION

"This group adds some enhancements to RMON-1 that help management stations."

::= { rmon2MIBGroups 12 }

rmon1TokenRingEnhancementGroup OBJECT-GROUP

OBJECTS { tokenRingMLStatsDroppedFrames,

```

        tokenRingMLStatsCreateTime,
        tokenRingPStatsDroppedFrames, tokenRingPStatsCreateTime,
        ringStationControlDroppedFrames,
        ringStationControlCreateTime,
        sourceRoutingStatsDroppedFrames,
        sourceRoutingStatsCreateTime }
STATUS deprecated
DESCRIPTION
    "This group adds some enhancements to RMON-1 that help
    management stations. This group is not referenced by any
    MODULE-COMPLIANCE macro because it is 'grandfathered' from
    more recent MIB review rules that would require it."
 ::= { rmon2MIBGroups 13 }
END

Found in path(s):
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-
MIB
No license file was found, but licenses were detected in source scan.

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, mib-2
        FROM SNMPv2-SMI      -- [RFC2578]
    TEXTUAL-CONVENTION
        FROM SNMPv2-TC;     -- [RFC2579]

ianaItuAlarmNumbers MODULE-IDENTITY
    LAST-UPDATED "200409090000Z" -- September 09, 2004
    ORGANIZATION "IANA"
    CONTACT-INFO
        "Postal:  Internet Assigned Numbers Authority
            Internet Corporation for Assigned Names
            and Numbers
            4676 Admiralty Way, Suite 330
            Marina del Rey, CA 90292-6601
            USA

        Tel:  +1 310-823-9358
        E-Mail: iana@iana.org"
    DESCRIPTION
        "The MIB module defines the ITU Alarm
        textual convention for objects expected to require
        regular extension.

```

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REVISION "200409090000Z" -- September 09, 2004  
DESCRIPTION  
"Initial version, published as RFC 3877."  
 ::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in X.733 are appended with X733 to ensure syntactic uniqueness. Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC. IANAItuProbableCause value of 0 is reserved for special purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100, 'Generic Network Information Model', 1995

ITU Recommendation X.733, 'Information Technology

- Open

Systems Interconnection - System Management: Alarm Reporting Function', 1992

ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

{

-- The following probable causes were defined in M.3100

aIS (1),

callSetUpFailure (2),

degradedSignal (3),

farEndReceiverFailure (4),

framingError (5),

lossOfFrame (6),

lossOfPointer (7),

lossOfSignal (8),

payloadTypeMismatch (9),

transmissionError (10),

remoteAlarmInterface (11),

excessiveBER (12),

pathTraceMismatch (13),

unavailable (14),

signalLabelMismatch (15),

lossOfMultiFrame (16),

receiveFailure (17),

transmitFailure (18),

modulationFailure (19),

demodulationFailure (20),

broadcastChannelFailure (21),

connectionEstablishmentError (22),

invalidMessageReceived (23),

localNodeTransmissionError (24),

remoteNodeTransmissionError (25),

routingFailure (26),

--Values 27-50 are reserved for communications alarm related

--probable causes

-- The following are used with equipment alarm.

backplaneFailure (51),

dataSetProblem (52),  
 equipmentIdentifierDuplication (53),  
 externalIFDeviceProblem (54),  
 lineCardProblem (55),  
 multiplexerProblem (56),  
 nEIdentifierDuplication (57),  
 powerProblem (58),  
 processorProblem (59),  
 protectionPathFailure (60),  
 receiverFailure (61),  
 replaceableUnitMissing (62),  
 replaceableUnitTypeMismatch  
 (63),  
 synchronizationSourceMismatch (64),  
 terminalProblem (65),  
 timingProblem (66),  
 transmitterFailure (67),  
 trunkCardProblem (68),  
 replaceableUnitProblem (69),  
 realTimeClockFailure (70),  
 --An equipment alarm to be issued if the system detects that the  
 --real time clock has failed  
 antennaFailure (71),  
 batteryChargingFailure (72),  
 diskFailure (73),  
 frequencyHoppingFailure (74),  
 iODeviceError (75),  
 lossOfSynchronisation (76),  
 lossOfRedundancy (77),  
 powerSupplyFailure (78),  
 signalQualityEvaluationFailure (79),  
 tranceiverFailure (80),  
 protectionMechanismFailure (81),  
 protectingResourceFailure (82),  
 -- Values 83-100 are reserved for equipment alarm related probable  
 -- causes  
 -- The following are used with environmental alarm.  
 airCompressorFailure (101),  
  
 airConditioningFailure (102),  
 airDryerFailure (103),  
 batteryDischarging (104),  
 batteryFailure (105),  
 commercialPowerFailure (106),  
 coolingFanFailure (107),  
 engineFailure (108),  
 fireDetectorFailure (109),

fuseFailure (110),  
 generatorFailure (111),  
 lowBatteryThreshold (112),  
 pumpFailure (113),  
 rectifierFailure (114),  
 rectifierHighVoltage (115),  
 rectifierLowFVVoltage (116),  
 ventilationsSystemFailure (117),  
 enclosureDoorOpen (118),  
 explosiveGas (119),  
 fire (120),  
 flood (121),  
 highHumidity (122),  
 highTemperature (123),  
 highWind (124),  
 iceBuildUp (125),  
 intrusionDetection (126),  
 lowFuel  
 (127),  
 lowHumidity (128),  
 lowCablePressure (129),  
 lowTemperature (130),  
 lowWater (131),  
 smoke (132),  
 toxicGas (133),  
 coolingSystemFailure (134),  
 externalEquipmentFailure (135),  
 externalPointFailure (136),  
 -- Values 137-150 are reserved for environmental alarm related  
 -- probable causes  
 -- The following are used with Processing error alarm.  
 storageCapacityProblem (151),  
 memoryMismatch (152),  
 corruptData (153),  
 outOfCPUCycles (154),  
 sfwrEnvironmentProblem (155),  
 sfwrDownloadFailure (156),  
 lossOfRealTime (157),  
 --A processing error alarm to be issued after the system has  
 --reinitialised. This will indicate  
 --to the management systems that the view they have of the managed  
  
 --system may no longer  
 --be valid. Usage example: The managed  
 --system issues this alarm  
 after a reinitialization with severity  
 --warning to inform the



--management system about the event. No clearing notification will  
--be sent.

- applicationSubsystemFailure (158),
- configurationOrCustomisationError (159),
- databaseInconsistency (160),
- fileError (161),
- outOfMemory (162),
- softwareError (163),
- timeoutExpired (164),
- underlyingResourceUnavailable (165),
- versionMismatch (166),

--Values 168-200 are reserved for processing error alarm related  
-- probable causes.

- bandwidthReduced (201),
- congestion (202),
- excessiveErrorRate (203),
- excessiveResponseTime (204),
- excessiveRetransmissionRate (205),
- reducedLoggingCapability (206),
- systemResourcesOverload (207 ),
- The following were defined X.733
- adapterError (500),
- applicationSubsystemFailure

(501),

- bandwidthReducedX733 (502),
- callEstablishmentError (503),
- communicationsProtocolError (504),
- communicationsSubsystemFailure (505),
- configurationOrCustomizationError (506),
- congestionX733 (507),
- corruptData (508),
- cpuCyclesLimitExceeded (509),
- dataSetOrModemError (510),
- degradedSignalX733 (511),
- dteDceInterfaceError (512),
- enclosureDoorOpenX733 (513),
- equipmentMalfunction (514),
- excessiveVibration (515),
- fileErrorX733 (516),
- fireDetected (517),
- framingErrorX733 (518),
- heatingVentCoolingSystemProblem (519),
- humidityUnacceptable (520),
- inputOutputDeviceError (521),
- inputDeviceError (522),

lanError (523),

leakDetected (524),  
localNodeTransmissionErrorX733 (525),  
  
lossOfFrameX733 (526),  
  lossOfSignalX733 (527),  
  materialSupplyExhausted (528),  
  multiplexerProblemX733 (529),  
  outOfMemoryX733 (530),  
  ouputDeviceError (531),  
  performanceDegraded (532),  
  powerProblems (533),  
  pressureUnacceptable (534),  
  processorProblems (535),  
  pumpFailureX733 (536),  
  queueSizeExceeded (537),  
  receiveFailureX733 (538),  
  receiverFailureX733 (539),  
  remoteNodeTransmissionErrorX733 (540),  
  resourceAtOrNearingCapacity (541),  
  responseTimeExcessive (542),  
  retransmissionRateExcessive (543),  
  softwareErrorX733 (544),  
  softwareProgramAbnormallyTerminated (545),  
  softwareProgramError (546),  
  storageCapacityProblemX733 (547),  
  temperatureUnacceptable (548),  
  thresholdCrossed (549),  
  timingProblemX733  
(550),  
  toxicLeakDetected (551),  
  transmitFailureX733 (552),  
  transmitterFailure (553),  
  underlyingResourceUnavailable (554),  
  versionMismatchX733 (555),  
  -- The following are defined in X.736  
  authenticationFailure (600),  
  breachOfConfidentiality (601),  
  cableTamper (602),  
  delayedInformation (603),  
  denialOfService (604),  
  duplicateInformation (605),  
  informationMissing (606),  
  informationModificationDetected (607),  
  informationOutOfSequence (608),  
  keyExpired (609),  
  nonRepudiationFailure (610),  
  outOfHoursActivity (611),  
  outOfService (612),

```
proceduralError (613),

    unauthorizedAccessAttempt (614),
    unexpectedInformation (615),

    other (1024)
}
```

IANAItuEventType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The ITU event Type values.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

See <http://www.iana.org> "

REFERENCE

"ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{
    other (1),
    communicationsAlarm (2),
    qualityOfServiceAlarm (3),
    processingErrorAlarm (4),
    equipmentAlarm (5),
    environmentalAlarm (6),
    integrityViolation (7),
    operationalViolation (8),
    physicalViolation (9),
    securityServiceOrMechanismViolation
(10),
    timeDomainViolation (11)
}
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB

No license file was found, but licenses were detected in source scan.

RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,  
Counter32, Integer32, Gauge32,  
IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI  
SnmAdminString FROM SNMP-FRAMEWORK-MIB  
InetAddressType, InetAddress,  
InetPortNumber FROM INET-ADDRESS-MIB  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

radiusAccClientMIB MODULE-IDENTITY

LAST-UPDATED "200608210000Z" -- 21 August 2006  
ORGANIZATION "IETF RADIUS Extensions Working Group."  
CONTACT-INFO

" Bernard Aboba  
Microsoft  
One Microsoft Way

Redmond, WA 98052  
US  
Phone: +1 425 936 6605  
EMail: bernarda@microsoft.com"

DESCRIPTION

"The MIB module for entities implementing the client  
side of the Remote

Authentication Dial-In User Service

(RADIUS) accounting protocol. Copyright (C) The  
Internet Society (2006). This version of this MIB  
module is part of RFC 4670; see the RFC itself for  
full legal notices."

REVISION "200608210000Z" -- 21 August 2006

DESCRIPTION

"Revised version as published in RFC 4670.  
This version obsoletes that of RFC 2620 by  
deprecating the MIB table containing IPv4-only  
address formats and defining a new table to add support  
for version-neutral IP address formats. The remaining  
MIB objects from RFC 2620 are carried forward into this  
version."

REVISION "199906110000Z" -- 11 Jun 1999

DESCRIPTION "Initial version as published in RFC 2620."

::= { radiusAccounting 2 }

radiusMIB OBJECT-IDENTITY

STATUS current

DESCRIPTION

"The OID assigned to RADIUS MIB work by the IANA."

::= { mib-2 67 }

radiusAccounting OBJECT IDENTIFIER ::= { radiusMIB 2 }

radiusAccClientMIBObjects OBJECT IDENTIFIER

::= { radiusAccClientMIB 1 }

radiusAccClient OBJECT IDENTIFIER

::= { radiusAccClientMIBObjects 1 }

radiusAccClientInvalidServerAddresses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets  
received from unknown addresses."

::= { radiusAccClient 1 }

radiusAccClientIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The NAS-Identifier of the RADIUS accounting client.  
This is not necessarily the same as sysName in MIB  
II."

REFERENCE "RFC 2865 section 5.32"

::= { radiusAccClient 2 }

radiusAccServerTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting  
servers with which the client shares a secret."

::= { radiusAccClient 3 }

radiusAccServerEntry OBJECT-TYPE  
 SYNTAX RadiusAccServerEntry  
 MAX-ACCESS not-accessible  
 STATUS deprecated  
 DESCRIPTION  
 "An entry (conceptual row) representing a RADIUS  
 accounting server with which the client shares a  
 secret."  
 INDEX { radiusAccServerIndex }  
 ::= { radiusAccServerTable 1 }

RadiusAccServerEntry ::= SEQUENCE {  
 radiusAccServerIndex Integer32,  
 radiusAccServerAddress IpAddress,  
 radiusAccClientServerPortNumber Integer32,  
 radiusAccClientRoundTripTime TimeTicks,  
 radiusAccClientRequests Counter32,  
 radiusAccClientRetransmissions  
 Counter32,  
 radiusAccClientResponses Counter32,  
 radiusAccClientMalformedResponses Counter32,  
 radiusAccClientBadAuthenticators Counter32,  
 radiusAccClientPendingRequests Gauge32,  
 radiusAccClientTimeouts Counter32,  
 radiusAccClientUnknownTypes Counter32,  
 radiusAccClientPacketsDropped Counter32  
 }

radiusAccServerIndex OBJECT-TYPE  
 SYNTAX Integer32 (1..2147483647)  
 MAX-ACCESS not-accessible  
 STATUS deprecated  
 DESCRIPTION  
 "A number uniquely identifying each RADIUS  
 Accounting server with which this client  
 communicates."  
 ::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE  
 SYNTAX IpAddress  
 MAX-ACCESS read-only  
 STATUS deprecated  
 DESCRIPTION  
 "The IP address of the RADIUS accounting server

referred to in this table entry."  
::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The UDP port the client is using to send requests to  
this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 3 }

radiusAccClientRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The time interval between the most recent  
Accounting-Response and the Accounting-Request that  
matched it from this RADIUS accounting server."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 4 }

-- Request/Response statistics

--

-- Requests = Responses + PendingRequests + ClientTimeouts

--

-- Responses - MalformedResponses - BadAuthenticators -

-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientRequests

OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets  
sent. This does not include retransmissions."

REFERENCE "RFC 2866 section 4.1"

::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 6 }

radiusAccClientResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 8 }

radiusAccClientBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION



"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server."  
REFERENCE "RFC 2866 section 3"  
::= { radiusAccServerEntry 9 }

radiusAccClientPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout, or a retransmission."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 10 }

radiusAccClientTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of accounting timeouts to this server. After a timeout, the client may retry to the same

server, send to a different server, or give up.

A retry to the same server is counted as a retransmit as well as a timeout. A send to a different server is counted as an Accounting-Request as well as a timeout."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 11 }

radiusAccClientUnknownTypes OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port."  
REFERENCE "RFC 2866 section 4"  
 ::= { radiusAccServerEntry 12 }

radiusAccClientPacketsDropped OBJECT-TYPE

SYNTAX Counter32  
UNITS "packets"  
MAX-ACCESS read-only  
STATUS deprecated  
DESCRIPTION  
"The number of RADIUS packets that were received from this server on the accounting port and dropped for some other reason."  
 ::= { radiusAccServerEntry 13 }

-- New MIB objects added in this revision

radiusAccServerExtTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerExtEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."  
 ::= { radiusAccClient 4 }

radiusAccServerExtEntry OBJECT-TYPE

SYNTAX RadiusAccServerExtEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."  
INDEX { radiusAccServerExtIndex }  
 ::= { radiusAccServerExtTable 1 }

RadiusAccServerExtEntry ::= SEQUENCE {

radiusAccServerExtIndex Integer32,  
radiusAccServerInetAddressType InetAddressType,  
radiusAccServerInetAddress  
InetAddress,  
radiusAccClientServerInetPortNumber InetPortNumber,  
radiusAccClientExtRoundTripTime TimeTicks,

```

radiusAccClientExtRequests      Counter32,
radiusAccClientExtRetransmissions Counter32,
radiusAccClientExtResponses     Counter32,
radiusAccClientExtMalformedResponses Counter32,
radiusAccClientExtBadAuthenticators Counter32,
radiusAccClientExtPendingRequests Gauge32,
radiusAccClientExtTimeouts      Counter32,
radiusAccClientExtUnknownTypes  Counter32,
radiusAccClientExtPacketsDropped Counter32,
radiusAccClientCounterDiscontinuity TimeTicks
}

```

radiusAccServerExtIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A number uniquely identifying each RADIUS  
Accounting server

with which this client

communicates."

::= { radiusAccServerExtEntry 1 }

radiusAccServerInetAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of address format used for the  
radiusAccServerInetAddress object."

::= { radiusAccServerExtEntry 2 }

radiusAccServerInetAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The IP address of the RADIUS accounting  
server referred to in this table entry, using  
the version-neutral IP address format."

::= { radiusAccServerExtEntry 3 }

radiusAccClientServerInetPortNumber OBJECT-TYPE

SYNTAX InetPortNumber ( 1..65535 )

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The UDP port the client is using  
to send requests  
to this accounting server. The value zero (0) is  
invalid."  
REFERENCE "RFC 2866 section 3"  
::= { radiusAccServerExtEntry 4 }

radiusAccClientExtRoundTripTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time interval between the most recent  
Accounting-Response and the Accounting-Request that  
matched it from this RADIUS accounting server."  
REFERENCE "RFC 2866 section 2"  
::= { radiusAccServerExtEntry 5 }

-- Request/Response statistics  
--  
-- Requests = Responses + PendingRequests + ClientTimeouts  
--  
-- Responses - MalformedResponses - BadAuthenticators -  
-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientExtRequests OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request  
packets  
sent. This does not include retransmissions.  
This counter may experience a discontinuity when the  
RADIUS Accounting Client module within the managed  
entity is reinitialized, as indicated by the current  
value of radiusAccClientCounterDiscontinuity."  
REFERENCE "RFC 2866 section 4.1"  
::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed

entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 7 }

radiusAccClientExtResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerExtEntry 8 }

radiusAccClientExtMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses. This counter may

experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 9 }

radiusAccClientExtBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server. This counter may experience a discontinuity when the RADIUS Accounting Client

module within the managed

entity is reinitialized, as indicated by the current value of

radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout, or a retransmission. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of

radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accounting timeouts to this server.

After a timeout, the client may retry to the same server, send to a different server, or give up.

A retry to the same server is counted as a retransmit as well as a timeout. A send to a different server is counted as an Accounting-Request as well as a timeout. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE

SYNTAX

Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port.

This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerExtEntry 13 }

radiusAccClientExtPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets that were received from this server on the accounting port and dropped for some other reason. This counter may experience a discontinuity when the RADIUS Accounting Client module within

the managed entity is reinitialized, as indicated  
by the current value of  
radiusAccClientCounterDiscontinuity."  
::= { radiusAccServerExtEntry 14 }

radiusAccClientCounterDiscontinuity OBJECT-TYPE

SYNTAX TimeTicks

UNITS "centiseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centiseconds since the last  
discontinuity in the RADIUS Accounting Client  
counters. A discontinuity may be the result of a  
reinitialization of the RADIUS Accounting Client  
module within the managed entity."

::= { radiusAccServerExtEntry 15 }

-- conformance information

radiusAccClientMIBConformance OBJECT IDENTIFIER

::= { radiusAccClientMIB 2 }

radiusAccClientMIBCompliances OBJECT IDENTIFIER

::= { radiusAccClientMIBConformance 1 }

radiusAccClientMIBGroups OBJECT IDENTIFIER

::= { radiusAccClientMIBConformance

2 }

-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The compliance statement for accounting clients  
implementing the RADIUS Accounting Client MIB.  
Implementation of this module is for IPv4-only  
entities, or for backwards compatibility use with  
entities that support both IPv4 and IPv6."

MODULE -- this module



MANDATORY-GROUPS { radiusAccClientMIBGroup }

::= { radiusAccClientMIBCompliances 1 }

radiusAccClientExtMIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for accounting clients implementing the RADIUS Accounting Client IPv6 Extensions MIB. Implementation of this module is for entities that support IPv6, or support IPv4 and IPv6."

MODULE -- this module

MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

OBJECT

radiusAccServerInetAddressType

SYNTAX InetAddressType { ipv4(1), ipv6(2) }

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT radiusAccServerInetAddress

SYNTAX InetAddress ( SIZE (4|16) )

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

::= { radiusAccClientMIBCompliances 2 }

-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP

OBJECTS { radiusAccClientIdentifier,  
radiusAccClientInvalidServerAddresses,  
radiusAccServerAddress,  
radiusAccClientServerPortNumber,  
radiusAccClientRoundTripTime,  
radiusAccClientRequests,  
radiusAccClientRetransmissions,  
radiusAccClientResponses,  
radiusAccClientMalformedResponses,  
radiusAccClientBadAuthenticators,

```
radiusAccClientPendingRequests,
radiusAccClientTimeouts,
radiusAccClientUnknownTypes,
radiusAccClientPacketsDropped
}
STATUS deprecated
DESCRIPTION
"The basic collection of objects providing management of
RADIUS Accounting Clients."
::= { radiusAccClientMIBGroups 1 }
```

radiusAccClientExtMIBGroup OBJECT-GROUP

```
OBJECTS { radiusAccClientIdentifier,
radiusAccClientInvalidServerAddresses,
radiusAccServerInetAddressType,
radiusAccServerInetAddress,
radiusAccClientServerInetPortNumber,
radiusAccClientExtRoundTripTime,
radiusAccClientExtRequests,
radiusAccClientExtRetransmissions,
radiusAccClientExtResponses,
radiusAccClientExtMalformedResponses,
radiusAccClientExtBadAuthenticators,
radiusAccClientExtPendingRequests,

radiusAccClientExtTimeouts,
radiusAccClientExtUnknownTypes,
radiusAccClientExtPacketsDropped,
radiusAccClientCounterDiscontinuity
```

```
}
STATUS current
DESCRIPTION
"The basic collection of objects providing management of
RADIUS Accounting Clients."
::= { radiusAccClientMIBGroups 2 }
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/RADIUS-ACC-CLIENT-MIB

No license file was found, but licenses were detected in source scan.

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,  
TimeTicks, Counter32, snmpModules, mib-2

FROM SNMPv2-SMI

DisplayString, TestAndIncr, TimeStamp

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP

FROM SNMPv2-CONF;

snmpMIB MODULE-IDENTITY

LAST-UPDATED "200210160000Z"

ORGANIZATION "IETF SNMPv3 Working Group"

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DESCRIPTION

"The MIB module for SNMP entities.

Copyright (C) The Internet Society (2002). This version of this MIB module is part of RFC 3418; see the RFC itself for full legal notices.

"

REVISION "200210160000Z"

DESCRIPTION

"This revision of this MIB module was published as RFC 3418."

REVISION "199511090000Z"

DESCRIPTION

"This revision of this MIB module was published as RFC 1907."

REVISION "199304010000Z"

DESCRIPTION

"The initial revision of this MIB module was published as RFC 1450."

::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

-- ::= { snmpMIBObjects 1 } this OID is obsolete

-- ::= { snmpMIBObjects 2 } this OID is obsolete

-- ::= { snmpMIBObjects 3 } this OID is obsolete

-- the System group

--

-- a collection of objects common to all managed systems.

system OBJECT IDENTIFIER ::= { mib-2 1 }

sysDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the entity. This value should include the full name and version identification of the system's hardware type, software operating-system, and networking software."

::= { system 1 }

sysObjectID

OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The vendor's authoritative identification of the network management subsystem contained in the entity.

This value is allocated within the SMI enterprises subtree (1.3.6.1.4.1) and provides an easy and unambiguous means for determining 'what kind of box' is being managed. For example, if vendor 'Flintstones, Inc.' was assigned the subtree 1.3.6.1.4.1.424242, it could assign the identifier 1.3.6.1.4.1.424242.1.1 to its 'Fred Router'."

::= { system 2 }

sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time (in hundredths of a second) since the network management portion of the system was last re-initialized."

::= { system 3 }

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The textual identification of the contact person for this managed node, together with information on how to contact this person. If no contact information is known, the value is the zero-length string."

::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified

domain name. If the name is unknown, the value is the zero-length string."

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The physical location of this node (e.g., 'telephone closet,

3rd floor'). If the location is unknown, the value is the zero-length string."

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A value which indicates the set of services that this entity may potentially offer. The value is a sum.

This sum initially takes the value zero. Then, for each layer, L, in the range 1 through 7, that this node performs transactions for, 2 raised to (L - 1) is added to the sum. For example, a node which performs only routing functions would have a value of 4 ( $2^{(3-1)}$ ). In contrast, a node which is a host offering application services would have a value of 72 ( $2^{(4-1)} + 2^{(7-1)}$ ). Note that in the context of the Internet suite of protocols, values should be calculated accordingly:

| layer | functionality                          |
|-------|----------------------------------------|
| 1     | physical (e.g., repeaters)             |
| 2     | datalink/subnetwork (e.g., bridges)    |
| 3     | internet (e.g., supports the IP)       |
| 4     | end-to-end (e.g., supports the TCP)    |
| 7     | applications (e.g., supports the SMTP) |

For systems including OSI protocols, layers 5 and 6 may also be counted."

::= { system 7 }

-- object resource information

--

-- a collection of objects which describe the SNMP entity's  
-- (statically and dynamically configurable) support of  
-- various MIB modules.

sysORLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time of the most recent  
change in state or value of any instance of sysORID."

::= { system 8 }

sysORTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the capabilities of  
the local SNMP application acting as a command  
responder with respect to various MIB modules.  
SNMP entities having dynamically-configurable support  
of MIB modules will have a dynamically-varying number  
of conceptual rows."

::= { system 9 }

sysOREntry OBJECT-TYPE

SYNTAX SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) in the sysORTable."

INDEX { sysORIndex }

::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {

sysORIndex INTEGER,

sysORID OBJECT IDENTIFIER,

sysORDescr DisplayString,

sysORUpTime TimeStamp

}

sysORIndex OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The auxiliary variable used for identifying instances of the columnar objects in the sysORTable."  
 ::= { sysOREntry 1 }

sysORID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An authoritative identification of a capabilities statement with respect to various MIB modules supported by the local SNMP application acting as a command responder."  
 ::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the capabilities identified by the corresponding instance of sysORID."  
 ::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this conceptual row was last instantiated."  
 ::= { sysOREntry 4 }

-- the SNMP group

--

-- a collection of objects providing basic instrumentation and

-- control of an SNMP entity.

snmp OBJECT IDENTIFIER ::= { mib-2 11 }

snmpInPkts OBJECT-TYPE



SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The total number of messages delivered to the SNMP  
    entity from the transport service."  
 ::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The total number of SNMP messages which were delivered  
    to the SNMP entity and were for an unsupported SNMP  
    version."  
 ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The total number of community-based SNMP messages (for  
    example, SNMPv1) delivered to the SNMP entity which  
    used an SNMP community name not known to said entity.  
    Also, implementations which authenticate community-based  
    SNMP messages using check(s) in addition to matching  
    the community name (for example, by also checking  
    whether the message originated from a transport address  
    allowed to use a specified community name) MAY include  
    in this value the number of messages which failed the  
    additional check(s). It is strongly RECOMMENDED that  
  
    the documentation for any security model which is used  
    to authenticate community-based SNMP messages specify  
    the precise conditions that contribute to this value."  
 ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The total number of community-based SNMP messages (for  
    example, SNMPv1) delivered to the SNMP entity which

represented an SNMP operation that was not allowed for the SNMP community named in the message. The precise conditions under which this counter is incremented (if at all) depend on how the SNMP entity implements its access control mechanism and how its applications interact with that access control mechanism. It is strongly RECOMMENDED that the documentation for any access control mechanism which is used to control access to and visibility of MIB instrumentation specify the precise conditions that contribute to this value."

::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages."

::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the SNMP entity is permitted to generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as

GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a

Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the request."

::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the transmission of the (possibly translated) message to a proxy target failed in a manner (other than a time-out) such that no Response Class PDU (such as a Response-PDU) could be returned."

::= { snmp 32 }

-- information for notifications

--

-- a collection of objects which allow the SNMP entity, when

-- supporting a notification

originator application,

-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"The authoritative identification of the notification currently being sent. This variable occurs as the second varbind in every SNMPv2-Trap-PDU and

```

    InformRequest-PDU."
 ::= { snmpTrap 1 }

-- ::= { snmpTrap 2 } this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
    SYNTAX    OBJECT IDENTIFIER
    MAX-ACCESS accessible-for-notify
    STATUS    current
    DESCRIPTION
        "The authoritative identification of the enterprise
        associated with the trap currently being sent.  When an
        SNMP proxy agent is mapping an RFC1157 Trap-PDU
        into a SNMPv2-Trap-PDU, this variable occurs as the
        last varbind."
 ::= { snmpTrap
 3 }

-- ::= { snmpTrap 4 } this OID is obsolete

-- well-known traps

snmpTraps    OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE
    STATUS    current
    DESCRIPTION
        "A coldStart trap signifies that the SNMP entity,
        supporting a notification originator application, is
        reinitializing itself and that its configuration may
        have been altered."
 ::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE
    STATUS    current
    DESCRIPTION
        "A warmStart trap signifies that the SNMP entity,
        supporting a notification originator application,
        is reinitializing itself such that its configuration
        is unaltered."
 ::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }
-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }
-- are defined in RFC 2863 [RFC2863]

```

```

authenticationFailure NOTIFICATION-TYPE
  STATUS current
  DESCRIPTION
    "An
authenticationFailure trap signifies that the SNMP
  entity has received a protocol message that is not
  properly authenticated. While all implementations
  of SNMP entities MAY be capable of generating this
  trap, the snmpEnableAuthenTraps object indicates
  whether this trap will be generated."
  ::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined
-- as { snmpTraps 6 } in RFC 1213

-- the set group
--
-- a collection of objects which allow several cooperating
-- command generator applications to coordinate their use of the
-- set operation.

snmpSet OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE
  SYNTAX TestAndIncr
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION
    "An advisory lock used to allow several cooperating
    command generator applications to coordinate their
    use of the SNMP set operation.

    This
    object is used for coarse-grain coordination.
    To achieve fine-grain coordination, one or more similar
    objects might be defined within each MIB group, as
    appropriate."
  ::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
  OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
  OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

```

```

-- compliance statements

-- ::= { snmpMIBCompliances 1 }   this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
  STATUS deprecated
  DESCRIPTION
    "The compliance statement for SNMPv2 entities which
    implement the SNMPv2 MIB.

    This compliance statement is replaced by
    snmpBasicComplianceRev2."
  MODULE -- this module
  MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
    snmpBasicNotificationsGroup }

  GROUP snmpCommunityGroup
  DESCRIPTION
    "This group is mandatory for SNMPv2 entities which
    support community-based authentication."

::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "The compliance statement for SNMP entities which
    implement this MIB module."
  MODULE -- this module
  MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
    snmpBasicNotificationsGroup }

  GROUP snmpCommunityGroup
  DESCRIPTION
    "This group is mandatory for SNMP entities which
    support community-based authentication."

  GROUP snmpWarmStartNotificationGroup
  DESCRIPTION
    "This group is mandatory for an SNMP entity which
    supports command responder applications, and is
    able to reinitialize itself such that its
    configuration is unaltered."

::= { snmpMIBCompliances

```

3 }

-- units of conformance

-- ::= { snmpMIBGroups 1 }        this OID is obsolete

-- ::= { snmpMIBGroups 2 }        this OID is obsolete

-- ::= { snmpMIBGroups 3 }        this OID is obsolete

-- ::= { snmpMIBGroups 4 }        this OID is obsolete

snmpGroup OBJECT-GROUP

OBJECTS { snmpInPkts,  
          snmpInBadVersions,  
          snmpInASNParsingErrs,  
          snmpSilentDrops,  
          snmpProxyDrops,  
          snmpEnableAuthenTraps }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation  
and control of an SNMP entity."

::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP

OBJECTS { snmpInBadCommunityNames,  
          snmpInBadCommunityUses }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation  
of a SNMP entity which supports community-based  
authentication."

::= { snmpMIBGroups 9 }

snmpSetGroup

OBJECT-GROUP

OBJECTS { snmpSetSerialNo }

STATUS current

DESCRIPTION

"A collection of objects which allow several cooperating  
command generator applications to coordinate their  
use of the set operation."

::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP

OBJECTS { sysDescr, sysObjectID, sysUpTime,  
          sysContact, sysName, sysLocation,

```
    sysServices,  
    sysORLastChange, sysORID,  
    sysORUpTime, sysORDescr }  
STATUS current  
DESCRIPTION  
    "The system group defines objects which are common to all  
    managed systems."  
 ::= { snmpMIBGroups 6 }  
  
snmpBasicNotificationsGroup NOTIFICATION-GROUP  
NOTIFICATIONS { coldStart, authenticationFailure }
```

```
STATUS current  
DESCRIPTION  
    "The basic notifications implemented by an SNMP entity  
    supporting command responder applications."  
 ::= { snmpMIBGroups 7 }
```

```
snmpWarmStartNotificationGroup  
NOTIFICATION-GROUP  
NOTIFICATIONS { warmStart }  
STATUS current  
DESCRIPTION  
    "An additional notification for an SNMP entity supporting  
    command responder applications, if it is able to reinitialize  
    itself such that its configuration is unaltered."  
 ::= { snmpMIBGroups 11 }
```

```
snmpNotificationGroup OBJECT-GROUP  
OBJECTS { snmpTrapOID, snmpTrapEnterprise }  
STATUS current  
DESCRIPTION  
    "These objects are required for entities  
    which support notification originator applications."  
 ::= { snmpMIBGroups 12 }
```

```
-- definitions in RFC 1213 made obsolete by the inclusion of a  
-- subset of the snmp group in this MIB
```

```
snmpOutPkts OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP Messages which were  
    passed from the SNMP protocol entity to the
```



```

        transport service."
 ::= { snmp 2 }

-- { snmp 7 } is not used

snmpInTooBigs
OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS obsolete
DESCRIPTION
    "The total number of SNMP PDUs which were
    delivered to the SNMP protocol entity and for
    which the value of the error-status field was
    `tooBig'."
 ::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS obsolete
DESCRIPTION
    "The total number of SNMP PDUs which were
    delivered to the SNMP protocol entity and for
    which the value of the error-status field was
    `noSuchName'."
 ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS obsolete
DESCRIPTION
    "The total number of SNMP PDUs which were
    delivered to the SNMP protocol entity and for
    which the value of the error-status field was
    `badValue'."
 ::= { snmp 10 }

snmpInReadOnlys
OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS obsolete
DESCRIPTION
    "The total number valid SNMP PDUs which were delivered

```

to the SNMP protocol entity and for which the value of the error-status field was `readOnly'. It should be noted that it is a protocol error to generate an SNMP PDU which contains the value `readOnly' in the error-status field, as such this object is provided as a means of detecting incorrect implementations of the SNMP."

::= { snmp 11 }

#### snmpInGenErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `genErr'."

::= { snmp 12 }

#### snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs."

::= { snmp 13 }

#### snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs."

::= { snmp 14 }

#### snmpInGetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS

read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 18 }

snmpInTraps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Trap PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 19 }

snmpOutTooBig OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP PDUs which were generated  
    by the SNMP protocol entity and for which the value  
    of the error-status field was `tooBig`."  
 ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP PDUs which were generated  
    by the SNMP protocol entity and for which the value  
    of the error-status was `noSuchName`."  
 ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP PDUs which were generated  
    by the SNMP protocol entity and for which the value  
    of the error-status field was  
    `badValue`."  
 ::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP PDUs which were generated  
    by the SNMP protocol entity and for which the value  
    of the error-status field was `genErr`."  
 ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity."

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity."

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpObsoleteGroup OBJECT-GROUP

OBJECTS { snmpOutPkts, snmpInTooBigs, snmpInNoSuchNames, snmpInBadValues, snmpInReadOnlys, snmpInGenErrs, snmpInTotalReqVars, snmpInTotalSetVars,

```

snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,

snmpInGetResponses, snmpInTraps, snmpOutTooBig,
snmpOutNoSuchNames, snmpOutBadValues,
snmpOutGenErrs, snmpOutGetRequests, snmpOutGetNexts,
snmpOutSetRequests, snmpOutGetResponses, snmpOutTraps
}
STATUS obsolete
DESCRIPTION
    "A collection of objects from RFC 1213 made obsolete
    by this MIB module."
::= { snmpMIBGroups 10 }

END

```

Found in path(s):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB
```

No license file was found, but licenses were detected in source scan.

DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

MODULE-IDENTITY,
OBJECT-TYPE,
IpAddress,
Unsigned32,
Counter32,
Integer32,
zeroDotZero,
mib-2
    FROM SNMPv2-SMI        -- RFC 2578
RowStatus,
RowPointer,
DateAndTime,
TruthValue,
StorageType
    FROM SNMPv2-TC        -- RFC 2579
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB -- RFC 4001
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF      -- RFC 2580
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB -- RFC 3411
InterfaceIndexOrZero
    FROM IF-MIB           -- RFC 2863

```

ZeroBasedCounter32  
FROM RMON2-MIB -- RFC 4502  
diffServMIBDataPathGroup,  
diffServMIBClfrGroup,

diffServMIBClfrElementGroup,  
diffServMIBMultiFieldClfrGroup,  
diffServMIBActionGroup,  
diffServMIBDscpMarkActGroup,  
diffServMIBCounterGroup,  
diffServMIBAlgDropGroup,

diffServDataPathStatus,  
diffServClfrStatus,  
diffServClfrElementStatus,  
diffServMultiFieldClfrAddrType,  
diffServMultiFieldClfrSrcAddr,  
diffServMultiFieldClfrDstAddr,  
diffServAlgDropStatus,  
diffServDataPathStorage,  
diffServClfrStorage,  
diffServClfrElementStorage,  
diffServMultiFieldClfrStorage,  
diffServActionStorage,  
diffServCountActStorage,  
diffServAlgDropStorage,  
diffServAlgDropType  
FROM DIFFSERV-MIB; -- RFC 3289

docsDev MODULE-IDENTITY

LAST-UPDATED "200612200000Z" -- December 20, 2006  
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Working Group"

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## DESCRIPTION

"This is the MIB Module for DOCSIS-compliant cable modems

and cable-modem  
termination systems.

Copyright (C) The IETF Trust (2006). This version  
of this MIB module was published in RFC 4639; for full  
legal notices see the RFC itself."

REVISION "200612200000Z" -- December 20, 2006

## DESCRIPTION

"Second version, published as RFC 4639.

Modifications to this MIB module since RFC 2669 include:

- Deprecation of the docsDevFilter group in favor of the DiffServ MIB groups, to enable support for IPv6 filtering and DiffServ Code Point (DSCP) marking.
- Deprecation of the docsDevCpeGroup in favor of the docsDevCpeInetGroup, to enable support of IPv6.
- Addition of various InetAddress objects to enable support of IPv6.
- Deprecation of docsDevNmAccessTable in favor of SNMP Coexistence and SNMPv3 -- yet adding docsDevNmAccessTrapVersion and clarifying docsDevNmAccessIp for current use of this table,
- Addition of docsDevIgmppModeControl for management and control of the IGMP mode of operation,
- Addition of docsDevMaxCpe for management of the maximum number of CPEs permitted access through a cable modem,
- Addition of docsDevSwServerTransportProtocol, and modifications to docsDevSoftware object DESCRIPTIONS,



- to enable software downloads via either TFTP or HTTP,
- Replacement of docsDevEvThrottleInhibited with docsDevEvThrottleThresholdExceeded to simplify event threshold management,
- Modification of docsDevEvReporting to enable local logging to the internal volatile log, and not to the internal non-volatile log,
- Modification of the compliance statement to make the docsDevCpe objects optional
- Created placeholders for two OIDs in the docsDevFilterPolicyTable that were never used
- Modified the DESCRIPTION of docsDevSwServerTransportProtocol and docsDevSwServerAddressType to address the dependence between each object
- Added a reference to docsDevServerConfigTftpAddress
- Clarified the scope of notifications that are covered by docsDevEvThrottleThreshold
- Clarified an error condition that could occur when

doing a SET to docsDevEvReporting

- Defined each of the enumerated types for both docsDevEvLevel and docsDevEvPriority
- Added UNITS clause to docsDevFilterLLCMatches, docsDevFilterIpMatches, docsDevMaxCpe, docsDevEvThrottleThreshold and docsDevEvCounts.
- Added REFERENCE clause to docsDevFilterIpProtocol
- Modified DESCRIPTION of docsDevCpeInetAddr to be more protocol-neutral
- Removed the enumerated value (1) from both docsDevCpeInetSource and docsDevCpeSource
- Covered additional read-write and read-create objects in the Security Considerations section
- Modified the default value of docsDevNmAccessIpMask to be consistent with OSSI specification
- Modified the SYNTAX of docsDevNmAccessCommunity and docsDevNmAccessInterfaces in the Conformance Statement section
- Added SYNTAX clause to docsDevEvReporting in the Conformance Statement section
- Modified SYNTAX clause of docsDevEvReporting to move new enumerated type to byte boundary
- Added references to DOCSIS 2.0 specifications to multiple objects
- Clarified non-persistence across reboots for

all

tables

- Clarified functionality of docsDevSw objects as they relate to docsDevSwOperStatus
- Clarified enumerated types (9) and (10) for docsDevServerBootState
- Defined the state of unknown(0) for the following objects: docsDevServerDhcpAddressType, docsDevServerTimeAddressType, docsDevServerConfigTftpAddressType and docsDevServerConfigTftpAddressType
- Modified the value in docsDevFilterIpDaddr to be consistent with the SYNTAX
- Specified which rows could be modified in an active row for docsDevFilterPolicyStatus
- Defined the term 'manually' in docsDevCpeEnroll
- Clarified the description for docsDevFilterTosOrMask
- Covered the case of a non-existent row for docsDevFilterPolicyPtr
- Added DEFVAL clauses for multiple

objects

- Replaced docsDevNotification OBJECT IDENTIFIER with docsDevNotifications to address possible compatibility issues

- Added support for the usage of RFC 3413 and RFC 3014 as event notification mechanisms
- Removed docsDevFilterPolicyObsoleteGroup
- Added stdInterface(9) type to docsDevEvReporting to support the usage of RFC3413 and RFC3014
- Modified DESCRIPTION for docsDevMaxCpe"

REVISION "199908190000Z"

DESCRIPTION

"Initial version, published as RFC 2669."

::= { mib-2 69 }

docsDevMIBObjects OBJECT IDENTIFIER ::= { docsDev 1 }

docsDevBase OBJECT IDENTIFIER ::= { docsDevMIBObjects 1 }

--

- For the following object, there is no concept in the
- RFI specification corresponding to a backup CMTS. The

-- enumeration is provided here in case someone is able  
-- to define such a role or device.  
--

docsDevRole OBJECT-TYPE

SYNTAX INTEGER {

cm(1),

cmtsActive(2),

cmtsBackup(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Defines the current role of this device. cm(1) is a Cable Modem, cmtsActive(2) is a Cable Modem Termination System that is controlling the system of cable modems, and cmtsBackup(3) is a CMTS that is currently connected but is not controlling the system (not currently used).

In general, if this device is a 'cm', its role will not change during operation or between reboots. If the device is a 'cmts' it may change between cmtsActive and cmtsBackup and back again during normal operation. NB: At this time, the DOCSIS standards do not support the concept of a backup CMTS, but cmtsBackup is included for completeness."

::= { docsDevBase 1 }

docsDevDateTime

OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The current date and time, with time zone information (if known).

If the real data and time cannot be determined, this shall represent elapsed time from boot relative to the standard epoch '1970-1-1,0:0:0.0'. In other words, if this agent has been up for 3 minutes and not been able to determine what the actual date and time are, this object will return the value '1970-1-1,0:03:0.0'."

::= { docsDevBase 2 }

docsDevResetNow OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to true(1) causes the device to reset. Reading this object always returns false(2)."

::= { docsDevBase 3 }

docsDevSerialNumber

OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The manufacturer's serial number for this device."

::= { docsDevBase 4 }

docsDevSTPControl OBJECT-TYPE

SYNTAX INTEGER {

stEnabled(1),

noStFilterBpdu(2),

noStPassBpdu(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls operation of the spanning tree protocol (as distinguished from transparent bridging).

If set to stEnabled(1), then the spanning tree protocol is enabled, subject to bridging constraints.

If noStFilterBpdu(2), then spanning tree is not active, and Bridge PDUs received are discarded.

If noStPassBpdu(3), then spanning tree is not active, and Bridge PDUs are transparently forwarded.

Note that a device need not implement all of these options, but that noStFilterBpdu(2) is required."

DEFVAL { noStFilterBpdu }

::= { docsDevBase 5 }

docsDevIcmpModeControl OBJECT-TYPE

SYNTAX INTEGER {

passive(1),

active(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls the IGMP mode of operation for the CM or CMTS. In passive mode, the device forwards IGMP between interfaces as based on knowledge of Multicast Session activity on the subscriber side interface and the rules defined in the DOCSIS RFI specification. In active mode, the device terminates at and initiates IGMP through its interfaces as based on the knowledge of Multicast Session activity on the subscriber side interface."

REFERENCE

"DOCSIS RFI 1.1 Specification, Section 3.3.1. and

DOCSIS RFI 2.0 Specification, Section 5.3.1."

DEFVAL { passive }

::= { docsDevBase 6 }

docsDevMaxCpe OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

UNITS "CPEs"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of CPEs that can be granted access through a CM during a CM epoch. This value can be obtained from the CM configuration file; however, it may be adjusted by the CM according to hardware or software limitations that have been imposed on the implementation."

REFERENCE

"DOCSIS RFI 1.0 Specification, Appendix C.7.20., and

DOCSIS RFI 1.1 Specification, Appendix C.1.1.7. and

DOCSIS RFI 2.0 Specification, Appendix C.1.1.7."

::= { docsDevBase 7 }

--

-- The following table provides one level of security for access

-- to the device by network management stations.  
--  
Note that access is also constrained by the  
-- community strings and any vendor-specific security.  
--

docsDevNmAccessTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevNmAccessEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This table controls access to SNMP objects by network management stations. If the table is empty, access to SNMP objects is unrestricted. The objects in this table MUST NOT persist across reboots. The objects in this table are only accessible from cable devices that are not capable of operating in SNMP Coexistence mode (RFC 3584) or in SNMPv3 mode (RFC 3410).

See the conformance section for details. Note that some devices are required by other specifications (e.g., the DOCSIS OSSIV1.1 specification) to support the legacy SNMPv1/v2c docsDevNmAccess mode for

backward compatibility.

This table is deprecated. Instead, use the SNMP coexistence MIBs from RFC 3584, the TARGET and NOTIFICATION MIBs from RFC 3413, and the View-Based Access Control Model (VACM) MIBs for all SNMP protocol versions from RFC 3415."

::= { docsDevMIBObjects 2 }

docsDevNmAccessEntry OBJECT-TYPE

SYNTAX DocsDevNmAccessEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry describing access to SNMP objects by a particular network management station. An entry in this table is not readable unless the management station has read-write permission (either implicit if the table is empty, or explicit through an entry in this table). Entries are ordered by docsDevNmAccessIndex. The first

matching entry (e.g., matching IP address and community

string) is used to derive access."

```
INDEX { docsDevNmAccessIndex }
```

```
::= { docsDevNmAccessTable 1 }
```

```
DocsDevNmAccessEntry ::= SEQUENCE {  
    docsDevNmAccessIndex    Integer32,  
    docsDevNmAccessIp      IPAddress,  
    docsDevNmAccessIpMask  IPAddress,  
    docsDevNmAccessCommunity OCTET STRING,  
    docsDevNmAccessControl  INTEGER,  
    docsDevNmAccessInterfaces OCTET STRING,  
    docsDevNmAccessStatus   RowStatus,  
    docsDevNmAccessTrapVersion INTEGER  
}
```

docsDevNmAccessIndex OBJECT-TYPE

```
SYNTAX Integer32 (1..2147483647)
```

```
MAX-ACCESS not-accessible
```

```
STATUS deprecated
```

```
DESCRIPTION
```

```
"Index used to order the application of access  
entries."
```

```
::= { docsDevNmAccessEntry 1 }
```

docsDevNmAccessIp OBJECT-TYPE

```
SYNTAX IPAddress
```

```
MAX-ACCESS read-create
```

```
STATUS deprecated
```

```
DESCRIPTION
```

```
"The IP address (or subnet) of the network management  
station. The address 0.0.0.0 is defined to mean  
any Network Management Station (NMS). If traps are  
enabled for this entry, then the value must be the  
address of a specific device. Implementations MAY  
recognize 255.255.255.255 as equivalent to 0.0.0.0."
```

```
DEFVAL { '00000000'h }
```

```
::= { docsDevNmAccessEntry 2 }
```

docsDevNmAccessIpMask OBJECT-TYPE

```
SYNTAX IPAddress
```

```
MAX-ACCESS read-create
```

```
STATUS deprecated
```

```
DESCRIPTION
```

```
"The IP subnet mask of the network management stations.  
If traps are enabled for this entry, then the value must  
be 0.0.0.0. Implementations MAY recognize  
255.255.255.255 as equivalent to 0.0.0.0."
```

```
DEFVAL { '00000000'h }
::= { docsDevNmAccessEntry 3 }
```

docsDevNmAccessCommunity OBJECT-TYPE

SYNTAX OCTET

STRING

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The community string to be matched for access by this entry. If set to a zero-length string, then any community string will match. When read, this object SHOULD return a zero-length string."

DEFVAL { "public" }

::= { docsDevNmAccessEntry 4 }

docsDevNmAccessControl OBJECT-TYPE

SYNTAX INTEGER {

none(1),

read(2),

readWrite(3),

roWithTraps(4),

rwWithTraps(5),

trapsOnly(6)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Specifies the type of access allowed to this NMS. Setting this object to none(1) causes the table entry to be destroyed. Read(2) allows access by 'get' and 'get-next' PDUs. ReadWrite(3) allows access by 'set' as well.

RoWithtraps(4), rwWithTraps(5), and trapsOnly(6) control distribution of Trap PDUs transmitted by this device."

DEFVAL { read }

::= { docsDevNmAccessEntry 5 }

-- The syntax of the following object was copied from RFC 1493,

-- dot1dStaticAllowedToGoTo.

docsDevNmAccessInterfaces OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS read-create

STATUS deprecated



## DESCRIPTION

"Specifies the set of interfaces from which requests from this NMS will be accepted. Each octet within the value of this object specifies a set of eight

interfaces, the first octet specifying ports 1 through 8, the second octet specifying interfaces 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered interface, and the least significant bit represents the highest numbered

interface. Thus, each interface is represented by a single bit within the value of this object. If that bit has a value of '1' then that interface is included in the set.

Note that entries in this table apply only to link-layer interfaces (e.g., Ethernet and CATV MAC). Bits representing upstream and downstream channel interfaces MUST NOT be set to '1'.

Note that if bits corresponding to non-existing interfaces are set, the result is implementation specific.

Note that according to the DOCSIS OSSIV1.1 specification, when ifIndex '1' is included in the set, then this row applies to all CPE (customer-facing) interfaces.

The size of this object is the minimum required to represent all configured interfaces for this device."

```
::= { docsDevNmAccessEntry 6 }
```

docsDevNmAccessStatus

### OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

### DESCRIPTION

"Controls and reflects the status of rows in this table. Rows in this table may be created by either the create-and-go or create-and-wait paradigm. There is no restriction on changing values in a row of this table while the row is active.

The following objects MUST have valid values before this object can be set to active: docsDevNmAccessIp, docsDevNmAccessStatus, docsDevNmAccessIpMask, docsDevNmAccessCommunity, docsDevNmAccessControl, and docsDevNmAccessInterfaces."  
 ::= { docsDevNmAccessEntry 7 }

docsDevNmAccessTrapVersion OBJECT-TYPE

SYNTAX INTEGER {

disableSNMPv2trap(1),  
enableSNMPv2trap(2)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Specifies the TRAP version that is sent to this NMS.

Setting this object to disableSNMPv2trap (1) causes the trap in SNMPv1 format to be sent to a particular NMS.

Setting this object to enableSNMPv2trap (2) causes the trap in SNMPv2 format be sent to a particular NMS."

DEFVAL { disableSNMPv2trap }

::= { docsDevNmAccessEntry 8 }

--

-- The following group describes control objects used for downloading  
-- firmware to a cable device. Procedures for software download are  
-- described in Section 3.2.1 of the RFC containing this MIB module.

--

docsDevSoftware OBJECT IDENTIFIER ::= { docsDevMIBObjects 3 }

docsDevSwServer OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The address of the TFTP server used for software upgrades. If the TFTP server is unknown or is a non-IPv4 address, return

0.0.0.0.

This object is deprecated. See docsDevSwServerAddress for its replacement. This object will have its value modified, given a valid SET to docsDevSwServerAddress."

::= { docsDevSoftware 1 }

docsDevSwFilename OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE (0..64))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The filename of the software image to be downloaded via TFTP, or the abs\_path (as defined in RFC 2616) of the software image to be downloaded via HTTP.

Unless set via SNMP, this is the filename or abs\_path specified by the provisioning server during the boot process that corresponds to the software version that

is desired for this device.

If unknown, the value of this object is the zero-length string."

::= { docsDevSoftware 2 }

docsDevSwAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

upgradeFromMgt(1),

allowProvisioningUpgrade(2),

ignoreProvisioningUpgrade(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If set to upgradeFromMgt(1), the device will initiate a TFTP or HTTP software image download. After successfully receiving an image, the device will set its state to ignoreProvisioningUpgrade(3) and reboot. If the download process is interrupted (e.g., by a reset or power failure), the device will load the previous image and, after re-initialization, continue to attempt loading the image specified in docsDevSwFilename.

If set to allowProvisioningUpgrade(2), the device will use the software version information supplied by the provisioning server when next rebooting (this does not cause a reboot).

When set to ignoreProvisioningUpgrade(3), the device will disregard software image upgrade information

from the provisioning server.

Note that reading this object can return upgradeFromMgt(1). This indicates that a software download is currently in progress, and that the device will reboot after successfully receiving an image."

```
DEFVAL { allowProvisioningUpgrade }  
::= { docsDevSoftware 3 }
```

docsDevSwOperStatus OBJECT-TYPE

```
SYNTAX INTEGER {  
    inProgress(1),  
    completeFromProvisioning(2),  
    completeFromMgt(3),  
    failed(4),  
    other(5)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"InProgress(1) indicates that a TFTP or HTTP download is underway, either as a result of a version mismatch at provisioning or as a result of a upgradeFromMgt request.

No other docsDevSw\* objects can be modified in this state.

CompleteFromProvisioning(2) indicates that the last software upgrade was a result of version mismatch at provisioning.

CompleteFromMgt(3) indicates that the last software upgrade was a result of setting docsDevSwAdminStatus to upgradeFromMgt.

Failed(4) indicates that the last attempted download failed, ordinarily due to TFTP or HTTP timeout."

REFERENCE

"DOCSIS RFI 1.0 Specification, Section 8.2., and DOCSIS RFI 1.1 Specification, Section 10.1. and DOCSIS RFI 2.0 Specification, Section 12.1."

```
::= { docsDevSoftware 4 }
```

docsDevSwCurrentVers OBJECT-TYPE

```
SYNTAX SnmpAdminString
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The software version currently operating in this device.

This

string's syntax is that used by the

individual vendor to identify software versions.

For a CM, this string will describe the current

software load. For a CMTS, this object SHOULD contain

a human-readable representation either of the vendor

specific designation of the software for the chassis,

or of the software for the control processor. If

neither of these is applicable, the value MUST be a

zero-length string."

::= { docsDevSoftware 5 }

docsDevSwServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of the TFTP or HTTP server used for

software upgrades.

If docsDevSwServerTransportProtocol is currently set to

tftp(1), attempting to set this object to dns(16) MUST

result in an error."

::=

{ docsDevSoftware 6 }

docsDevSwServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The address of the TFTP or HTTP server used for software upgrades.

If the TFTP/HTTP server is unknown, return the zero-length address string (see the TextualConvention).

If docsDevSwServer is also implemented in this agent,

this object is tied to it. A set of this object to an

IPv4 address will result in also setting the value of

docsDevSwServer to that address. If this object is set

to an IPv6 address, docsDevSwServer is set to 0.0.0.0.  
If docsDevSwServer is set, this object is also set to that value. Note that if both are set in the same action, the order of which one sets the other is undefined."

```
::= { docsDevSoftware 7 }
```

docsDevSwServerTransportProtocol

OBJECT-TYPE

SYNTAX INTEGER {

  tftp(1),

  http(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the transport protocol (TFTP or HTTP) to be used for software upgrades.

If the value of this object is tftp(1), then the cable device uses TFTP (RFC 1350) read request packets to download the docsDevSwFilename from the docsDevSwServerAddress in octet mode.

If the value of this object is http(2), then the cable device uses HTTP 1.0 (RFC 1945) or HTTP 1.1 (RFC 2616) GET requests sent to host docsDevSwServerAddress to

download the software image from path docsDevSwFilename.

If docsDevSwServerAddressType is currently set to dns(16), attempting to set this object to tftp(1) MUST result in an error."

DEFVAL

```
{ tftp }
```

```
::= { docsDevSoftware 8 }
```

--

-- The following group describes server access and parameters used  
-- for initial provisioning and bootstrapping.

--

docsDevServer OBJECT IDENTIFIER ::= { docsDevMIBObjects 4 }

docsDevServerBootState OBJECT-TYPE

SYNTAX INTEGER {

operational(1),  
disabled(2),  
waitingForDhcpOffer(3),  
waitingForDhcpResponse(4),  
waitingForTimeServer(5),  
waitingForTftp(6),  
refusedByCmts(7),  
forwardingDenied(8),  
other(9),  
unknown(10)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If operational(1), the device has completed loading and processing of configuration parameters, and the CMTS has completed the Registration exchange.

If disabled(2), then the device was administratively disabled, possibly by being refused network access

in

the configuration file.

If waitingForDhcpOffer(3), then a Dynamic Host Configuration Protocol (DHCP) Discover has been transmitted, and no offer has yet been received.

If waitingForDhcpResponse(4), then a DHCP Request has been transmitted, and no response has yet been received.

If waitingForTimeServer(5), then a Time Request has been transmitted, and no response has yet been received.

If waitingForTftp(6), then a request to the TFTP parameter server has been made, and no response received.

If refusedByCmts(7), then the Registration Request/Response exchange with the CMTS failed.

If forwardingDenied(8), then the registration process was completed, but the network access option in the received configuration file prohibits forwarding.

If other(9), then the registration

process reached a point that does not fall into one of the above categories.

If unknown(10), then the device has not yet begun the registration process or is in some other indeterminate state."

#### REFERENCE

"DOCSIS RFI 1.0 Specification, Figure 7-1, and DOCSIS RFI 1.1 Specification, Figure 9-1 and DOCSIS RFI 2.0 Specification, Figure 11-1."

::= { docsDevServer 1 }

#### docsDevServerDhcp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

#### DESCRIPTION

"The IP address of the DHCP server that assigned an IP address to this device. Returns 0.0.0.0 if DHCP is not used for IP address assignment, or if this agent is not assigned an IPv4 address.

This object is deprecated and is replaced by docsDevServerDhcpAddress."

::= { docsDevServer  
2 }

#### docsDevServerTime OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

#### DESCRIPTION

"The IP address of the Time server (RFC 0868). Returns 0.0.0.0 if the time server IP address is unknown, or if the time server is not an IPv4 server.

This object is deprecated and is replaced by

docsDevServerTimeAddress."

::= { docsDevServer 3 }

#### docsDevServerTftp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated



#### DESCRIPTION

"The IP address of the TFTP server responsible for downloading provisioning and configuration parameters to this device. Returns 0.0.0.0 if the TFTP server address is unknown or is not an IPv4 address.

This object is deprecated and is replaced by docsDevServerConfigTftpAddress."

```
::= { docsDevServer  
4 }
```

#### docsDevServerConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The name of the device configuration file read from the TFTP server. Returns a zero-length string if the configuration file name is unknown."

```
::= { docsDevServer 5 }
```

#### docsDevServerDhcpAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The type of address of docsDevServerDhcpAddress. If DHCP was not used, this value should return unknown(0)."

```
::= { docsDevServer 6 }
```

#### docsDevServerDhcpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The internet address of the DHCP server that assigned an IP address to this device. Returns the zero length

octet string if DHCP was not used for IP address assignment."

```
::= { docsDevServer 7 }
```

#### docsDevServerTimeAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The type of address of docsDevServerTimeAddress. If  
no time server exists, this value should return  
unknown(0)."  
::= { docsDevServer 8 }

docsDevServerTimeAddress OBJECT-TYPE

SYNTAX InetAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Internet address of the RFC 868 Time server,  
as provided by DHCP option 4.

Note that if multiple values are provided to the  
CM in DHCP option 4, the value of this MIB object  
MUST be the Time server address from which the Time  
of Day reference was acquired as based on the DOCSIS  
RFI specification.

During the period of time where  
the Time of Day have not been acquired, the Time  
server address reported by the CM may report the  
first address value in the DHCP option value or the  
last server address the CM attempted to get the Time  
of day value.

Returns the zero-length octet string if the time server  
IP address is not provisioned."

REFERENCE

"DOCSIS RFI 1.1 Specification, Section 9.2.7. and  
DOCSIS RFI 2.0 Specification, Section 11.2.7."

::= { docsDevServer 9 }

docsDevServerConfigTftpAddressType OBJECT-TYPE

SYNTAX InetAddressType  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The type of address of docsDevServerConfigTftpAddress.  
If no TFTP server exists, this value should return  
unknown(0)."  
::= { docsDevServer 10 }

docsDevServerConfigTftpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internet address of the TFTP server responsible for downloading provisioning and configuration parameters to this device. Returns the zero-length octet string if the config server address is unknown. There are certain security risks that are involved with using TFTP."

REFERENCE

"RFC 3617, Section 5"

::= { docsDevServer 11 }

--

-- Event Reporting

--

docsDevEvent OBJECT IDENTIFIER ::= { docsDevMIBObjects 5 }

docsDevEvControl OBJECT-TYPE

SYNTAX INTEGER {

resetLog(1),

useDefaultReporting(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to resetLog(1) empties the event log. All data is deleted. Setting it to useDefaultReporting(2) returns all event

priorities to

their factory-default reporting. Reading this object always returns useDefaultReporting(2)."

::= { docsDevEvent 1 }

docsDevEvSyslog OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the Syslog server. If 0.0.0.0, either syslog transmission is inhibited, or the Syslog server address is not an IPv4 address.

This object is deprecated and is replaced by docsDevEvSyslogAddress."

::= { docsDevEvent 2 }

docsDevEvThrottleAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

unconstrained(1),  
maintainBelowThreshold(2),  
stopAtThreshold(3),  
inhibited(4)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls the transmission of traps and syslog messages  
with respect  
to the trap pacing threshold.

unconstrained(1) causes traps and syslog messages to be  
transmitted without regard to the threshold settings.

maintainBelowThreshold(2) causes trap transmission and  
syslog messages to be suppressed if the number of traps  
would otherwise exceed the threshold.

stopAtThreshold(3) causes trap transmission to cease at  
the threshold and not to resume until directed to do so.

inhibited(4) causes all trap transmission and syslog  
messages to be suppressed.

A single event is always treated as a single event for  
threshold counting. That is, an event causing both a  
trap and a syslog message is still treated as a single  
event.

Writing to this object resets the thresholding state."

DEFVAL { unconstrained }

::= { docsDevEvent 3 }

docsDevEvThrottleInhibited OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"If true(1), trap and syslog transmission is currently  
inhibited due to thresholds and/or the current setting

of docsDevEvThrottleAdminStatus. In addition, this is true(1) when transmission is inhibited because no syslog (docsDevEvSyslog) or trap (docsDevNmAccessEntry) destinations have been set.

This object is deprecated and is replaced by docsDevEvThrottleThresholdExceeded."

::= { docsDevEvent 4 }

docsDevEvThrottleThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "events"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Number of events per docsDevEvThrottleInterval permitted before throttling is to occur.

A single event, whether the notification could result in

messages transmitted using syslog, SNMP, or both protocols, and regardless of the number of destinations, (including zero) is always treated as a single event for threshold counting. For example, an event causing both a trap and a syslog message is still treated as a single event.

All system notifications that occur within the device should be taken into consideration when calculating and monitoring the threshold."

DEFVAL { 0 }

::= { docsDevEvent 5 }

docsDevEvThrottleInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The interval over which docsDevEvThrottleThreshold applies."

DEFVAL { 1 }

::= { docsDevEvent 6 }

--

-- The following table controls the reporting of the various classes  
-- of events.  
--

docsDevEvControlTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table allows control of the reporting of event  
classes. For each event priority, a combination of

logging and reporting mechanisms may be chosen. The  
mapping of event types to priorities is  
vendor dependent. Vendors may also choose to allow  
the user to control that mapping through proprietary  
means. Table entries MUST persist across reboots for  
CMTS devices and MUST NOT persist across reboots for CM  
devices."

::= { docsDevEvent 7 }

docsDevEvControlEntry OBJECT-TYPE

SYNTAX DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Allows configuration of the reporting mechanisms for a  
particular  
event priority."

INDEX { docsDevEvPriority }

::= { docsDevEvControlTable 1 }

DocsDevEvControlEntry ::= SEQUENCE {

docsDevEvPriority INTEGER,

docsDevEvReporting BITS

}

docsDevEvPriority OBJECT-TYPE

SYNTAX INTEGER {

emergency(1),

alert(2),

critical(3),

error(4),

warning(5),

notice(6),

```
information(7),
debug(8)
}
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

"The priority level that is controlled by this entry. These are ordered from most (emergency) to least (debug) critical. Each event with a CM or CMTS has a particular priority level associated with it (as defined by the vendor).

emergency(1) events indicate vendor-specific fatal hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEvControlEntry 1 }
```

docsDevEvReporting OBJECT-TYPE

```
SYNTAX BITS {
    local(0),
    traps(1),
    syslog(2),
    -- The following are extensions to the original set of
    -- labels. The extensions start at an octet boundary.
    -- So for bits 3 - 7, one MUST set them to zero on send
    -- and one MUST ignore them on receipt.
    localVolatile(8),
    stdInterface(9)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action to be taken on occurrence of this event class. Implementations may not necessarily support all options for all event classes but at minimum must allow traps and

syslogging to be disabled.

If the local(0) bit is set, then log to the internal log and update non-volatile store, for backward compatibility with the original RFC 2669 definition.

If the traps(1) bit is set, then generate an SNMP trap; if the syslog(2) bit is set, then send a syslog message (assuming that the syslog address is set). If the localVolatile(8) bit is set, then log to the internal log without updating non-volatile store. If the stdInterface(9) bit is set, then the agent ignores all other bits except the local(0), syslog(2), and localVolatile(8) bits. Setting the stdInterface(9) bit indicates that RFC3413 and RFC3014 are being used to control event reporting mechanisms."

::= { docsDevEvControlEntry 2 }

docsDevEventTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevEventEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains a log of network and device events that may be of interest in fault isolation and troubleshooting.

If the local(0) bit is set in docsDevEvReporting,



entries in this table MUST persist across reboots."  
 ::= { docsDevEvent 8 }

docsDevEventEntry OBJECT-TYPE

SYNTAX DocsDevEventEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a network or device event that may be of interest in fault isolation and troubleshooting. Multiple sequential identical events are represented by incrementing docsDevEvCounts and setting docsDevEvLastTime to the current time rather than creating multiple rows.

Entries are created with the first occurrence of an event. docsDevEvControl can be used to clear the table. Individual events cannot be deleted."

INDEX { docsDevEvIndex }

::= { docsDevEventTable 1 }

DocsDevEventEntry ::= SEQUENCE {

docsDevEvIndex Integer32,

docsDevEvFirstTime DateAndTime,

docsDevEvLastTime DateAndTime,

docsDevEvCounts Counter32,

docsDevEvLevel INTEGER,

docsDevEvId Unsigned32,

docsDevEvText SnmpAdminString

}

docsDevEvIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides relative ordering of the objects in the event log. This object will always increase except when (a) the log is reset via docsDevEvControl, (b) the device reboots and does not implement non-volatile storage for this log, or (c)

it reaches

the value  $2^{31}$ . The next entry for all the above cases is 1."

::= { docsDevEventEntry 1 }

docsDevEvFirstTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of docsDevDateTime at the time this entry was created."

::= { docsDevEventEntry 2 }

docsDevEvLastTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"When an entry reports only one event, this object will have the same value as the corresponding instance of docsDevEvFirstTime. When an entry reports multiple events, this object will record the value that docsDevDateTime had when the most recent event for this entry occurred."

::= { docsDevEventEntry 3 }

-- This object was renamed from docsDevEvCount to meet naming

--

requirements for Counter32

docsDevEvCounts OBJECT-TYPE

SYNTAX Counter32

UNITS "events"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of consecutive event instances reported by this entry. This starts at 1 with the creation of this row and increments by 1 for each subsequent duplicate event."

::= { docsDevEventEntry 4 }

docsDevEvLevel OBJECT-TYPE

SYNTAX INTEGER {

emergency(1),

alert(2),

critical(3),

error(4),

warning(5),

```
notice(6),
information(7),
debug(8)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"The priority level of this event, as defined by the vendor. These are ordered from most serious (emergency) to least serious (debug).

emergency(1) events indicate vendor-specific fatal hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but that is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific

events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEventEntry 5 }
```

--

-- It is strongly recommended that implementors follow the CableLabs  
-- enumerations for docsDevEvId, per the DOCSIS OSSIV1.1 spec  
-- and follow-on specifications.  
--

docsDevEvId OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For this product, uniquely identifies the type of event  
that is reported by this entry."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Appendix H and  
DOCSIS OSSI 2.0 Specification, Annex D."

::= { docsDevEventEntry 6 }

docsDevEvText OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Provides a human-readable description of the event,  
including all relevant context (interface numbers,  
etc.)."

::= { docsDevEventEntry 7 }

docsDevEvSyslogAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of docsDevEvSyslogAddress. If  
no syslog server exists, this value should return  
unknown(0)."

DEFVAL { unknown }

::= { docsDevEvent 9 }

docsDevEvSyslogAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Internet address of the Syslog server, as provided

by DHCP option 7 or set via SNMP management. If the address of the server is set to the zero-length string, the 0.0.0.0 IPv4 address, or the 0: IPv6 address, Syslog transmission is inhibited.

Note that if multiple values are provided to the CM in DHCP option 7, the value of this MIB object MUST be the first Syslog server address received.

By default at agent boot, this object returns the zero length string."  
::= { docsDevEvent 10 }

docsDevEvThrottleThresholdExceeded OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If true(1), trap and syslog transmission is currently inhibited due to exceeding the trap/syslog event threshold in the current interval."

::= { docsDevEvent 11 }

--

-- Link Level Control Filtering

--

docsDevFilter OBJECT IDENTIFIER ::= { docsDevMIBObjects 6 }

docsDevFilterLLCUnmatchedAction OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2)

}

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

"LLC (Link Level Control) filters can be defined on an inclusive or exclusive basis: CMs can be configured to forward only packets matching a set of layer three protocols, or to drop packets matching a set of layer three protocols. Typical use of these filters is to

filter out possibly harmful (given the context of a

large metropolitan LAN) protocols.

If set to discard(1), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be discarded. If set to accept(2), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be accepted for further processing (e.g., bridging). In other words, if the packet does not match an entry in the table, it takes this action;

if it does match an entry in the table, it takes the opposite of this action."

```
DEFVAL { accept }  
::= { docsDevFilter 1 }
```

docsDevFilterLLCTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterLLCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of filters to apply to (bridged) LLC traffic. The filters in this table are applied to incoming traffic on the appropriate interface(s) prior to any further processing (e.g., before the packet is handed off for level 3 processing, or for bridging). The specific action taken when no filter is matched is controlled by docsDevFilterLLCUnmatchedAction. Table entries MUST NOT persist across reboots for any device."

```
::= { docsDevFilter 2 }
```

docsDevFilterLLCEntry OBJECT-TYPE

SYNTAX DocsDevFilterLLCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a single filter to apply to (bridged) LLC traffic received on a specified interface. "

```
INDEX { docsDevFilterLLCIndex }
```

```
::= { docsDevFilterLLCTable 1 }
```

DocsDevFilterLLCEntry ::= SEQUENCE {

```
docsDevFilterLLCIndex      Integer32,  
docsDevFilterLLCStatus    RowStatus,  
docsDevFilterLLCIfIndex   InterfaceIndexOrZero,  
docsDevFilterLLCProtocolType  INTEGER,  
docsDevFilterLLCProtocol  Integer32,  
docsDevFilterLLCMatches   Counter32
```

}

docsDevFilterLLCIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index used for the identification of filters (note that LLC filter order is irrelevant)."

::= { docsDevFilterLLCEntry 1 }

docsDevFilterLLCStatus

OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Controls and reflects the status of rows in this table. There is no restriction on changing any of the associated columns for this row while this object is set to active.

Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterLLCIfIndex (at least) must be specified on a CMTS to create a row."

::= { docsDevFilterLLCEntry 2 }

docsDevFilterLLCIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entry interface to which this filter applies. The value corresponds to ifIndex for either a CATV MAC or another network interface. If the value is zero, the filter applies to all interfaces. In Cable Modems, the default value is the customer side interface(s). In CMTSs, this object has to be specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1 specification, ifIndex '1' in the CM means that this row applies to all Cable Modem-to-CPE Interfaces

(CMCI)."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and  
DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterLLCEntry 3 }

docsDevFilterLLCProtocolType OBJECT-TYPE

SYNTAX INTEGER {

ethertype(1),

dsap(2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The format of the value in docsDevFilterLLCProtocol:  
either a two-byte Ethernet Ethertype, or a one-byte  
802.2 Service Access Point (SAP) value. ethertype(1)  
also applies to Standard Network Access Protocol  
(SNAP) encapsulated frames."

DEFVAL { ethertype }

::= { docsDevFilterLLCEntry 4 }

docsDevFilterLLCProtocol OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The layer-three protocol for which this filter applies.  
The protocol value format depends on  
docsDevFilterLLCProtocolType. Note that for SNAP  
frames, ethertype filtering is performed rather than  
Destination Service Access Point (DSAP) =0xAA."

DEFVAL { 0 }

::= { docsDevFilterLLCEntry 5 }

docsDevFilterLLCMatches OBJECT-TYPE

SYNTAX Counter32

UNITS "matches"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Counts the number of times this filter was matched."

::= { docsDevFilterLLCEntry 6 }



--  
-- IPv4 Filtering  
--

docsDevFilterIpDefault OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2)

}

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The default behavior for (bridged) packets that do not match IP filters (or Internet filters, if implemented) is defined by docsDevFilterIpDefault.

If set to discard(1), all packets not matching an IP filter in docsDevFilterIpTable will be discarded. If set to accept(2), all packets not matching an IP filter or an Internet filter will be accepted for further processing (e.g., bridging)."

DEFVAL { accept }

::= { docsDevFilter 3 }

docsDevFilterIpTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterIpEntry

MAX-ACCESS

not-accessible

STATUS deprecated

DESCRIPTION

"An ordered list of filters or classifiers to apply to IP traffic. Filter application is ordered by the filter index, rather than by a best match algorithm (note that this implies that the filter table may have gaps in the index values). Packets that match no filters will have policy 0 in the docsDevFilterPolicyTable applied to them, if it exists. Otherwise, Packets that match no filters are discarded or forwarded according to the setting of docsDevFilterIpDefault.

Any IP packet can theoretically match multiple rows of this table. When considering a packet, the table is scanned in row index order (e.g., filter 10 is checked before filter 20). If the packet matches that filter (which means that it matches ALL criteria for that

row),

actions appropriate to docsDevFilterIpControl and docsDevFilterPolicyId are taken. If the packet was discarded processing is complete. If docsDevFilterIpContinue is set to true, the filter comparison continues with the next row in the table, looking for additional matches.

If the packet matches no filter in the table, the packet is accepted or dropped for further processing according to the setting of docsDevFilterIpDefault. If the packet is accepted, the actions specified by policy group 0 (e.g., the rows in docsDevFilterPolicyTable that have a value of 0 for docsDevFilterPolicyId) are taken, if that policy

group exists.

Logically, this table is consulted twice during the processing of any IP packet: once upon its acceptance from the L2 entity, and once upon its transmission to

the L2 entity. In actuality, for cable modems, IP filtering is generally the only IP processing done for transit traffic. This means that inbound and outbound filtering can generally be done at the same time with one pass through the filter table.

The objects in this table are only accessible from cable devices that are not operating in DiffServ MIB mode (RFC 3289). See the conformance section for details.

Note that some devices are required by other specifications (e.g., the DOCSIS OSSIV1.1 specification) to support the legacy SNMPv1/v2c docsDevFilter mode for backward compatibility.

Table entries **MUST NOT** persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 4 }

docsDevFilterIpEntry

OBJECT-TYPE

SYNTAX DocsDevFilterIpEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Describes a filter to apply to IP traffic received on a specified interface. All identity objects in this table (e.g., source and destination address/mask, protocol, source/dest port, TOS/mask, interface and direction) must match their respective fields in the packet for any given filter to match.

To create an entry in this table, docsDevFilterIpIfIndex must be specified."

INDEX { docsDevFilterIpIndex }

::= { docsDevFilterIpTable 1 }

DocsDevFilterIpEntry ::= SEQUENCE {

docsDevFilterIpIndex Integer32,  
docsDevFilterIpStatus RowStatus,  
docsDevFilterIpControl INTEGER,

docsDevFilterIpIfIndex InterfaceIndexOrZero,

docsDevFilterIpDirection INTEGER,  
docsDevFilterIpBroadcast TruthValue,  
docsDevFilterIpSaddr IpAddress,  
docsDevFilterIpSmask IpAddress,  
docsDevFilterIpDaddr IpAddress,  
docsDevFilterIpDmask IpAddress,  
docsDevFilterIpProtocol Integer32,  
docsDevFilterIpSourcePortLow Integer32,  
docsDevFilterIpSourcePortHigh Integer32,  
docsDevFilterIpDestPortLow Integer32,  
docsDevFilterIpDestPortHigh Integer32,  
docsDevFilterIpMatches ZeroBasedCounter32,  
docsDevFilterIpTos OCTET STRING,  
docsDevFilterIpTosMask OCTET STRING,  
docsDevFilterIpContinue TruthValue,  
docsDevFilterIpPolicyId Integer32  
}

docsDevFilterIpIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Index used to order the application of filters.

The filter with the lowest index is always applied first."

::= { docsDevFilterIpEntry 1 }

docsDevFilterIpStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Controls and reflects the status of rows in this table. Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterIpIfIndex (at least) must be specified on a CMTS to create a row. Creation of the rows may be done via either create-and-wait or create-and-go, but the filter is not applied until this

object is set to (or changes to) active. There is no restriction in changing any object in a row while this object is set to active."

::= { docsDevFilterIpEntry 2 }

docsDevFilterIpControl OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2),

policy(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to discard(1), all packets matching this filter will be discarded, and scanning of the remainder of the filter list will be aborted. If set to accept(2), all packets matching this filter will be accepted for further processing (e.g., bridging). If docsDevFilterIpContinue is set to true, see if there are other matches; otherwise, done. If set to policy (3), execute the policy entries

matched by docsDevFilterIpPolicyId in  
docsDevFilterPolicyTable.

If docsDevFilterIpContinue is set to true, continue  
scanning the table for other matches; otherwise, done."

DEFVAL { discard }

::= { docsDevFilterIpEntry 3 }

docsDevFilterIpIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entry interface to which this filter applies. The  
value corresponds to ifIndex for either a CATV MAC or  
another interface. If the value is zero, the  
filter applies to all interfaces. Default value in CMs  
is the index of the customer-side (e.g., ethernet)  
interface(s). In CMTSes, this object MUST be  
specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1  
specification, ifIndex '1' in the Cable Modem means  
that this row applies to all CMCI (customer-facing)  
interfaces."

REFERENCE

"DOCSIS OSSIV 1.1 Specification, Section 3.3.4.1. and  
DOCSIS OSSIV 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterIpEntry 4 }

docsDevFilterIpDirection OBJECT-TYPE

SYNTAX INTEGER {

inbound(1),

outbound(2),

both(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Determines whether the filter is applied to inbound(1)  
traffic, outbound(2) traffic, or traffic in both(3)  
directions."

DEFVAL { inbound }

::= { docsDevFilterIpEntry 5 }

docsDevFilterIpBroadcast OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to true(1), the filter only applies to multicast and broadcast traffic. If set to false(2), the filter applies to all traffic."

DEFVAL { false }

::= { docsDevFilterIpEntry 6 }

docsDevFilterIpSaddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The source IP address, or portion thereof, that is to be matched for this filter. The source address is first masked (ANDed) against docsDevFilterIpSmask before being compared to this value. A value of 0 for this object and 0 for the mask matches all IP addresses."

DEFVAL { '00000000'h }

::= { docsDevFilterIpEntry 7 }

docsDevFilterIpSmask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A bit mask that is to be applied to the source address prior to matching. This mask is not necessarily the same as a subnet mask, but 1s bits must be leftmost and contiguous."

DEFVAL

{ '00000000'h }

::= { docsDevFilterIpEntry 8 }

docsDevFilterIpDaddr OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The destination IP address, or portion thereof, that is to be matched for this filter. The destination address

is first masked (ANDed) against docsDevFilterIpDmask before being compared to this value. A value of 00000000 for this object and 00000000 for the mask matches all IP addresses."  
DEFVAL { '00000000'h }  
::= { docsDevFilterIpEntry 9 }

docsDevFilterIpDmask OBJECT-TYPE

SYNTAX IpAddress  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION

"A bit mask that is to be applied to the destination address prior to matching. This mask is not necessarily the same as a subnet mask, but 1s bits MUST be leftmost

and contiguous."  
DEFVAL { '00000000'h }  
::= { docsDevFilterIpEntry 10 }

docsDevFilterIpProtocol OBJECT-TYPE

SYNTAX Integer32 (0..256)  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION

"The IP protocol value that is to be matched. For example, icmp is 1, tcp is 6, and udp is 17. A value of 256 matches ANY protocol."

REFERENCE "www.iana.org/assignments/protocol-numbers"  
DEFVAL { 256 }  
::= { docsDevFilterIpEntry 11 }

docsDevFilterIpSourcePortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION

"This is the inclusive lower bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."  
REFERENCE "www.iana.org/assignments/port-numbers"  
DEFVAL { 0 }  
::= { docsDevFilterIpEntry 12 }

docsDevFilterIpSourcePortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive upper bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 65535 }

::= { docsDevFilterIpEntry 13 }

docsDevFilterIpDestPortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive lower bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 0 }

::= { docsDevFilterIpEntry 14 }

docsDevFilterIpDestPortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive upper bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 65535 }

::= { docsDevFilterIpEntry 15 }

docsDevFilterIpMatches OBJECT-TYPE

SYNTAX ZeroBasedCounter32

UNITS "matches"

MAX-ACCESS read-only

STATUS deprecated



DESCRIPTION

"Counts the number of times this filter was matched.

This object is initialized to 0 at boot, or at row creation, and is reset only upon reboot."  
::= { docsDevFilterIpEntry 16 }

docsDevFilterIpTos OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the value to be matched to the packet's TOS (Type of Service) value (after the TOS value is ANDed with docsDevFilterIpTosMask). A value for this object of 0 and a mask of 0 matches all TOS values."

DEFVAL { '00'h }

::= { docsDevFilterIpEntry 17 }

docsDevFilterIpTosMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The mask to be applied to the packet's TOS value before matching."

DEFVAL { '00'h }

::= { docsDevFilterIpEntry 18 }

docsDevFilterIpContinue OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If this value is set to true and docsDevFilterIpControl is anything but discard (1), continue scanning and applying policies. See Section 3.3.3 for more details."

DEFVAL { false }

::= { docsDevFilterIpEntry 19 }

docsDevFilterIpPolicyId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This object points to an entry in

docsDevFilterPolicyTable. If docsDevFilterIpControl

is set to policy (3), execute all matching policies in docsDevFilterPolicyTable. If no matching policy exists, treat as if docsDevFilterIpControl were set to accept (1). If this object is set to the value of 0, there is no matching policy, and docsDevFilterPolicyTable MUST NOT be consulted."

DEFVAL { 0 }

::= { docsDevFilterIpEntry 20 }

--

-- Policy Mapping Table

--

docsDevFilterPolicyTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterPolicyEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A Table that maps between a policy group ID and a set of pointers to policies to be applied. All rows with the same docsDevFilterPolicyId are part of the same group of policy pointers and are applied in the order in this table. docsDevFilterPolicyTable exists to allow multiple policy actions (referenced by policy pointers) to be applied to any given classified packet. The policy actions are applied in index order.

For example:

| Index | ID | Type  | Action |
|-------|----|-------|--------|
| 1     | 1  | TOS   | 1      |
| 9     | 5  | TOS   | 1      |
| 12    | 1  | IPSEC | 3      |

This says that a packet that matches a filter with policy id 1 first has TOS policy 1 applied (which might set the TOS bits to enable a higher priority) and next has the IPSEC policy 3 applied (which may result in the packets being dumped into a secure VPN to a remote encryptor).

Policy ID 0 is reserved for default actions and is applied only to packets that match no filters in docsDevFilterIpTable.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB

from RFC 3289."

```
::= { docsDevFilter 5 }
```

docsDevFilterPolicyEntry OBJECT-TYPE

SYNTAX DocsDevFilterPolicyEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry in the docsDevFilterPolicyTable. Entries are created by Network

Management. To create an entry,

docsDevFilterPolicyId MUST be specified."

INDEX { docsDevFilterPolicyIndex }

```
::= { docsDevFilterPolicyTable 1 }
```

DocsDevFilterPolicyEntry ::= SEQUENCE {

docsDevFilterPolicyIndex Integer32,

docsDevFilterPolicyId Integer32,

-- docsDevFilterPolicyType INTEGER,

-- docsDevFilterPolicyAction Integer32,

docsDevFilterPolicyStatus RowStatus,

docsDevFilterPolicyPtr RowPointer

}

docsDevFilterPolicyIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION "Index value for the table."

```
::= { docsDevFilterPolicyEntry 1 }
```

docsDevFilterPolicyId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Policy ID for this entry. If a policy ID can apply

to

multiple rows of this table, all relevant policies are

executed. Policy 0 (if populated) is applied to all

packets that do not match any of the filters. N.B. If docsDevFilterIpPolicyId is set to 0, it DOES NOT match policy 0 of this table."  
::= { docsDevFilterPolicyEntry 2 }

-- The following two objects were removed and never used; however,  
-- to preserve OID numbering, they are simply commented out to  
-- to ensure that they are not used again.  
-- docsDevFilterPolicyType ::= { docsDevFilterPolicyEntry 3 }  
-- docsDevFilterPolicyAction ::= { docsDevFilterPolicyEntry 4 }

#### docsDevFilterPolicyStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION

"Object used to create an entry in this table. There is no restriction in changing any object in a row while this object is set to active.

The

following object MUST have a valid value before this object can be set to active: docsDevFilterPolicyPtr."

::= { docsDevFilterPolicyEntry 5 }

#### docsDevFilterPolicyPtr OBJECT-TYPE

SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION

"This object points to a row in an applicable filter policy table. Currently, the only standard policy table is docsDevFilterTosTable.

Per the textual convention, this object points to the first accessible object in the row; e.g., to point to a row in docsDevFilterTosTable with an index of 21, the value of this object would be the object identifier docsDevTosStatus.21.

Vendors are recommended to adhere to the same convention when adding vendor-specific policy table extensions.

If this pointer references an empty or non-existent

row, then no policy action is taken.

The default upon row creation is a null pointer that results in no policy action being taken."

DEFVAL { zeroDotZero }

::= { docsDevFilterPolicyEntry 6 }

--

-- TOS Policy action table

--

docsDevFilterTosTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterTosEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Table used to describe Type of Service (TOS) bits

processing.

This table is an adjunct to the docsDevFilterIpTable and the docsDevFilterPolicy table. Entries in the latter table can point to specific rows in this (and other) tables and cause specific actions to be taken.

This table permits the manipulation of the value of the Type of Service bits in the IP header of the matched packet as follows:

Set the tosBits

of the packet to

(tosBits & docsDevFilterTosAndMask) |  
docsDevFilterTosOrMask

This construct allows you to do a clear and set of all the TOS bits in a flexible manner.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 6 }

docsDevFilterTosEntry OBJECT-TYPE

SYNTAX DocsDevFilterTosEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A TOS policy entry."

INDEX { docsDevFilterTosIndex }

::= { docsDevFilterTosTable 1 }

```
DocsDevFilterTosEntry ::= SEQUENCE {
    docsDevFilterTosIndex Integer32,
    docsDevFilterTosStatus RowStatus,
    docsDevFilterTosAndMask OCTET STRING,
    docsDevFilterTosOrMask OCTET STRING
}
```

docsDevFilterTosIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The unique index for this row. There are no ordering requirements for this table, and any valid index may be specified."

::= { docsDevFilterTosEntry 1 }

docsDevFilterTosStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The object used to create and delete entries in this table. A row created by specifying just this object results in a row that specifies no change to the TOS bits. A row may be created using either the create-and-go or create-and-wait paradigms. There is no restriction on the ability to change values in this row while the row is active."

::= { docsDevFilterTosEntry 2 }

docsDevFilterTosAndMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This value is bitwise ANDed with the matched packet's TOS bits."

DEFVAL { 'ff'h }

::= { docsDevFilterTosEntry 3 }

```

docsDevFilterTosOrMask OBJECT-TYPE
    SYNTAX    OCTET STRING (SIZE (1))
    MAX-ACCESS read-create
    STATUS    deprecated
    DESCRIPTION
        "This value is bitwise ORed with the result from the
        AND procedure (tosBits & docsDevFilterTosAndMask).
        The result then replaces the packet's TOS bits."
    DEFVAL { '00'h }
    ::= { docsDevFilterTosEntry 4 }

--
-- CPE IP Management and anti-spoofing group. Only implemented on
-- Cable Modems.
--

docsDevCpe OBJECT IDENTIFIER ::= { docsDevMIBObjects 7 }

docsDevCpeEnroll OBJECT-TYPE
    SYNTAX    INTEGER {
        none(1),
        any(2)
    }
    MAX-ACCESS read-write

    STATUS    current
    DESCRIPTION
        "This object controls the population of
        docsDevFilterCpeTable.
        If set to none, the filters must be set manually
        by a network management action (either configuration
        or SNMP set).
        If set to any, the CM wiretaps the packets originating
        from the ethernet and enrolls up to docsDevCpeIpMax
        addresses as based on the source IPv4 or v6 addresses of
        those packets."
    DEFVAL { any }
    ::= { docsDevCpe 1 }

docsDevCpeIpMax OBJECT-TYPE
    SYNTAX    Integer32 (-1..2147483647)
    MAX-ACCESS read-write
    STATUS    current
    DESCRIPTION
        "This object controls the maximum number of CPEs allowed

```

to be learned behind this device. If set to zero, any number of CPEs may connect up to the maximum permitted for the device.

If set to -1, no filtering

is done on CPE source

addresses, and no entries are made in the docsDevFilterCpeTable via learning. If an attempt is made to set this to a number greater than that permitted for the device, it is set to that maximum."

DEFVAL { -1 }

::= { docsDevCpe 2 }

docsDevCpeTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This table lists the IPv4 addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms. Table entries MUST NOT persist across reboots for any device.

N.B. Management action can add entries in this table and

in docsDevCpeIpTable past the value of

docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the ability of the CM to add learned addresses automatically.

This table is deprecated and is replaced by docsDevCpeInetTable."

::= { docsDevCpe 3 }

docsDevCpeEntry OBJECT-TYPE

SYNTAX DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry in the docsDevFilterCpeTable. There is one entry for each IPv4 CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the



customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any

and the sum of the table sizes of docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable)."

INDEX { docsDevCpeIp }

::= { docsDevCpeTable 1 }

DocsDevCpeEntry ::= SEQUENCE {  
docsDevCpeIp IpAddress,  
docsDevCpeSource INTEGER,  
docsDevCpeStatus RowStatus  
}

docsDevCpeIp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The IPv4 address to which this entry applies.

N.B. Attempts to set all zeros or all ones address values MUST be rejected."

::= { docsDevCpeEntry 1 }

docsDevCpeSource OBJECT-TYPE

SYNTAX INTEGER {

other(1),

manual(2),

learned(3)

}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"This object describes how this entry was created. If the value is manual(2), this row was created by a network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IPv4 address of a received packet. The value other(1) is used for any entries that do not meet manual(2) or learned(3) criteria."

::= { docsDevCpeEntry 2 }

docsDevCpeStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Standard object to manipulate rows. To create a row in this table, one only needs

to specify this object.

Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

::= { docsDevCpeEntry 3 }

--

-- Internet CPE Management and anti spoofing group, for support of

-- non-IPv4 CPEs.

--

docsDevCpeInetTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevCpeInetEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists the IP addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms.

N.B. Management action can add entries in this table and in docsDevCpeIpTable past the value of docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the

ability of the CM to add learned addresses automatically.

Table entries MUST NOT persist across reboots for any

device.

This table exactly mirrors docsDevCpeTable and applies to IPv4 and IPv6 addresses."

::= { docsDevCpe 4 }

docsDevCpeInetEntry OBJECT-TYPE

SYNTAX DocsDevCpeInetEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the docsDevFilterCpeInetTable. There is one entry for each IP CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any and the

sum of the table sizes for docsDevCpeTable and

docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable).

When an agent (cable modem) restarts, then all dynamically created rows are lost."

INDEX { docsDevCpeInetType, docsDevCpeInetAddr }

::= { docsDevCpeInetTable 1 }

DocsDevCpeInetEntry ::= SEQUENCE {

docsDevCpeInetType InetAddressType,

docsDevCpeInetAddr InetAddress,

docsDevCpeInetSource INTEGER,

docsDevCpeInetRowStatus RowStatus

}

docsDevCpeInetType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS

not-accessible  
STATUS current  
DESCRIPTION  
"The type of internet address of docsDevCpeInetAddr."  
::= { docsDevCpeInetEntry 1 }

docsDevCpeInetAddr OBJECT-TYPE  
SYNTAX InetAddress  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The Internet address to which this entry applies.  
  
Implementors need to be aware that if the size of docsDevCpeInetAddr exceeds 114 octets OIDs of instances of columns in this row will have more than 128 sub-identifiers and cannot be accessed using SNMPv1, SNMPv2c, or SNMPv3. Only unicast address are allowed for this object."  
::= { docsDevCpeInetEntry 2 }

docsDevCpeInetSource OBJECT-TYPE  
SYNTAX INTEGER {  
manual(2),  
learned(3)  
}  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object describes how this entry was created. If the value is manual(2), this row was created by a network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IP address of a received packet."  
::= { docsDevCpeInetEntry 3 }

docsDevCpeInetRowStatus OBJECT-TYPE  
SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"Standard object to manipulate rows. To create a row in this table, one only needs to specify this object. Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

```

::= { docsDevCpeInetEntry 4 }

--
-- Placeholder for notifications/traps.
--

-- erroneous, DO NOT USE docsDevNotification
docsDevNotification OBJECT IDENTIFIER ::= { docsDev 2 }
-- erroneous, DO NOT USE docsDevNotification

docsDevNotifications
OBJECT IDENTIFIER ::= { docsDev 0 }

--
-- RFC 2669 Conformance definitions
--

docsDevConformance OBJECT IDENTIFIER ::= { docsDev 3 }
docsDevGroups OBJECT IDENTIFIER ::= { docsDevConformance 1 }
docsDevCompliances OBJECT IDENTIFIER ::= { docsDevConformance 2 }

docsDevBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The RFC 2669 compliance statement for MCNS/DOCSIS
        Cable Modems and Cable Modem Termination Systems."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem
        Termination Systems."

GROUP docsDevEventGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem
        Termination Systems."

GROUP docsDevFilterGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem

```

Termination Systems."

GROUP

docsDevNmAccessGroup

DESCRIPTION

"This group is only implemented in devices that do not implement the SNMPv3 User Security Model. It SHOULD NOT be implemented by devices that conform to SNMPv3.

For devices that do not implement SNMPv3 or later, this group is Mandatory in Cable Modems and is optional in Cable Modem Termination Systems."

GROUP docsDevServerGroup

DESCRIPTION

"This group is implemented only in Cable Modems, and is not implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroup

DESCRIPTION

"This group is Mandatory in Cable Modems and optional in Cable Modem Termination Systems."

GROUP docsDevCpeGroup

DESCRIPTION

"This group is Mandatory in Cable Modems, and is not implemented in Cable Modem Termination Systems."

OBJECT docsDevSTPControl

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support noStFilterBpdu(2)."

OBJECT docsDevNmAccessIp

DESCRIPTION

"It is compliant to recognize the IP address 255.255.255.255 as referring to any NMS."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0). An agent need not enforce that trap or syslog logging be accompanied

by local(0) or localVolatile(3) logging."  
 ::= { docsDevCompliances 1 }

docsDevBaseGroup OBJECT-GROUP

OBJECTS {

docsDevRole,  
docsDevDateTime,

docsDevResetNow,  
docsDevSerialNumber,  
docsDevSTPControl

}

STATUS current

DESCRIPTION

"A collection of objects providing device status

and

control."

::= { docsDevGroups 1 }

docsDevNmAccessGroup OBJECT-GROUP

OBJECTS {

docsDevNmAccessIp,  
docsDevNmAccessIpMask,  
docsDevNmAccessCommunity,  
docsDevNmAccessControl,  
docsDevNmAccessInterfaces,  
docsDevNmAccessStatus

}

STATUS deprecated

DESCRIPTION

"A collection of objects for controlling access to SNMP  
objects on cable devices.

This group has been deprecated because all the  
objects have been deprecated in favor of SNMPv3 and  
Coexistence MIBs."

::= { docsDevGroups 2 }

docsDevSoftwareGroup OBJECT-GROUP

OBJECTS {

docsDevSwServer,  
docsDevSwFilename,  
docsDevSwAdminStatus,  
docsDevSwOperStatus,  
docsDevSwCurrentVers

}

STATUS deprecated

DESCRIPTION

"A collection of objects  
for controlling software  
downloads.

This group has been deprecated and replaced by  
docsDevSoftwareGroupV2. Object docsDevSwServer  
has been replaced by docsDevSwServerAddressType  
and docsDevSwServerAddress, and  
docsDevSwServerTransportProtocol has been added to  
support TFTP and HTTP firmware downloads."

::= { docsDevGroups 3 }

docsDevServerGroup OBJECT-GROUP

OBJECTS {

docsDevServerBootState,  
docsDevServerDhcp,  
docsDevServerTime,  
docsDevServerTftp,  
docsDevServerConfigFile

}

STATUS deprecated

DESCRIPTION

"A collection of objects providing status about server  
provisioning.

This group has been deprecated and replaced by  
docsDevServerGroupV2. The objects docsDevServerDhcp,  
docsDevServerTime, and docsDevServerTftp have

been replaced by docsDevServerDhcpAddressType,  
docsDevServerDhcpAddress, docsDevServerTimeAddressType,  
docsDevServerTimeAddress,  
docsDevServerConfigTftpAddressType, and  
docsDevServerConfigTftpAddress."

::= { docsDevGroups 4 }

docsDevEventGroup OBJECT-GROUP

OBJECTS {

docsDevEvControl,  
docsDevEvSyslog,  
docsDevEvThrottleAdminStatus,  
docsDevEvThrottleInhibited,  
docsDevEvThrottleThreshold,



```

docsDevEvThrottleInterval,
docsDevEvReporting,
docsDevEvFirstTime,
docsDevEvLastTime,
docsDevEvCounts,
docsDevEvLevel,
docsDevEvId,
docsDevEvText
}
STATUS    deprecated
DESCRIPTION
"A collection of objects used to control and monitor
events.

```

This group has been deprecated and replaced by docsDevEventGroupV2.  
The object docsDevEvSyslog has

```

been replaced by docsDevEvSyslogAddressType and
docsDevEvSyslogAddress, and docsDevEvThrottleInhibited
has been replaced by
docsDevEvThrottleThresholdExceeded."
::= { docsDevGroups 5 }

```

docsDevFilterGroup OBJECT-GROUP

```

OBJECTS {
docsDevFilterLLCUnmatchedAction,
docsDevFilterIpDefault,
docsDevFilterLLCStatus,
docsDevFilterLLCIfIndex,
docsDevFilterLLCProtocolType,
docsDevFilterLLCProtocol,
docsDevFilterLLCMatches,
docsDevFilterIpControl,
docsDevFilterIpIfIndex,
docsDevFilterIpStatus,
docsDevFilterIpDirection,
docsDevFilterIpBroadcast,
docsDevFilterIpSaddr,
docsDevFilterIpSmask,
docsDevFilterIpDaddr,
docsDevFilterIpDmask,
docsDevFilterIpProtocol,
docsDevFilterIpSourcePortLow,
docsDevFilterIpSourcePortHigh,
docsDevFilterIpDestPortLow,

```

```
docsDevFilterIpDestPortHigh,
docsDevFilterIpMatches,
docsDevFilterIpTos,
docsDevFilterIpTosMask,
docsDevFilterIpContinue,
docsDevFilterIpPolicyId,
docsDevFilterPolicyId,
docsDevFilterPolicyStatus,
docsDevFilterPolicyPtr,
docsDevFilterTosStatus,
docsDevFilterTosAndMask,
docsDevFilterTosOrMask
}
```

STATUS deprecated

DESCRIPTION

"A collection of objects to specify filters at the link layer and IPv4 layer.

This group has been deprecated and replaced by various groups from the DiffServ MIB."

```
::= { docsDevGroups 6 }
```

docsDevCpeGroup OBJECT-GROUP

```
OBJECTS {
docsDevCpeEnroll,
docsDevCpeIpMax,
docsDevCpeSource,
docsDevCpeStatus
}
```

STATUS deprecated

DESCRIPTION

"A collection of objects used to control the number and specific values of IPv4 addresses allowed for associated Customer Premises Equipment (CPE).

This group has been deprecated and replaced by docsDevInetCpeGroup. The object docsDevCpeSource has been replaced by docsDevCpeInetSource, and docsDevCpeStatus has been replaced by docsDevCpeInetRowStatus."

```
::= { docsDevGroups 7 }
```

```
--
-- RFC 4639 Conformance definitions
--
```

```
docsDevGroupsV2 OBJECT IDENTIFIER ::= { docsDevConformance 3 }
docsDevCompliancesV2 OBJECT IDENTIFIER ::= { docsDevConformance 4 }
```

```
docsDevCmCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for DOCSIS Cable Modems.

        This compliance statement applies to implementations
        of DOCSIS versions that are not
        IPv6 capable."
```

```
MODULE DIFFSERV-MIB -- RFC 3289
```

```
MANDATORY-GROUPS {
    diffServMIBDataPathGroup,
    diffServMIBClfrGroup,
    diffServMIBClfrElementGroup,
    diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup,
    diffServMIBDscpMarkActGroup,
    diffServMIBCounterGroup,
    diffServMIBAlgDropGroup
}
```

```
OBJECT diffServDataPathStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
        "Support for createAndWait and notInService is not
        required."
```

```
OBJECT diffServClfrStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
        "Support for createAndWait and notInService is not
        required."
```

```
OBJECT diffServClfrElementStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
}
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
```

"Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServMultiFieldClfrSrcAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServMultiFieldClfrDstAddr

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT diffServAlgDropStatus -- same as RFC 3289

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServDataPathStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServClfrStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServClfrElementStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support

volatile storage."

OBJECT diffServMultiFieldClfrStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServActionStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServCountActStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServAlgDropStorage

SYNTAX StorageType { volatile(2) }

DESCRIPTION

"An implementation is only required to support volatile storage."

OBJECT diffServAlgDropType

SYNTAX INTEGER { alwaysDrop(5) }

DESCRIPTION

"This object is only used to provide packet filtering. Implementations need not support other values of this enumeration."

MODULE -- docsDev

MANDATORY-GROUPS {

docsDevBaseGroup,  
docsDevBaseIgmpGroup,  
docsDevBaseMaxCpeGroup,  
docsDevSoftwareGroupV2,  
docsDevServerGroupV2,  
docsDevEventGroupV2,  
docsDevFilterLLCGroup  
}

-- conditionally mandatory groups

GROUP docsDevInetCpeGroup

DESCRIPTION

"This group is  
optional in Cable Modems."

OBJECT docsDevDateTime

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.  
Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIcmpModeControl

SYNTAX INTEGER { passive(1) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.  
Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4  
addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to  
support IPv4  
addresses."

OBJECT docsDevServerDhcpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4  
addresses."

OBJECT docsDevServerDhcpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerConfigTftpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT

docsDevServerConfigTftpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4

addresses."

OBJECT docsDevSwServerTransportProtocol

SYNTAX INTEGER { tftp(1) }

DESCRIPTION

"An implementation is only required to support TFTP software image downloads."

::= { docsDevCompliancesV2  
1 }

docsDevCmtsCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modem Termination Systems.

This compliance statement applies to implementations of DOCSIS versions that are not IPv6 capable."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseIcmpGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."



GROUP docsDevEventGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

OBJECT docsDevDateTime

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIcmpModeControl

SYNTAX INTEGER { passive(1)

}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.  
Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4  
addresses."

OBJECT docsDevEvSyslogAddress

SYNTAX InetAddress

(SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4  
addresses."

OBJECT docsDevSwServerTransportProtocol

SYNTAX INTEGER { tftp(1) }

DESCRIPTION

"An implementation is only required to support TFTP  
software image downloads."

::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP

OBJECTS {

docsDevIgmpModeControl

}

STATUS current

DESCRIPTION

"An object providing cable device IGMP status and  
control."

::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP

OBJECTS {

docsDevMaxCpe

}

STATUS current

DESCRIPTION

"An object providing management of the maximum number of  
CPEs permitted access through a cable modem."

::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP  
OBJECTS {

docsDevNmAccessTrapVersion

}

STATUS deprecated

DESCRIPTION

"An object, in addition to the objects in docsDevNmAccessGroup, for controlling access to SNMP objects on cable devices.

This group is included in this MIB due to existing implementations of docsDevNmAccessTrapVersion in DOCSIS cable modems.

This group has been deprecated because the object has been deprecated in favor of SNMPv3 and Coexistence MIBs."

::= { docsDevGroupsV2 3 }

docsDevSoftwareGroupV2 OBJECT-GROUP  
OBJECTS {

docsDevSwFilename,  
docsDevSwAdminStatus,  
docsDevSwOperStatus,  
docsDevSwCurrentVers,  
docsDevSwServerAddressType,  
docsDevSwServerAddress,  
docsDevSwServerTransportProtocol

}

STATUS current

DESCRIPTION

"A collection of objects for controlling software downloads. This group replaces docsDevSoftwareGroup."

::= { docsDevGroupsV2 4 }

docsDevServerGroupV2 OBJECT-GROUP  
OBJECTS {

docsDevServerBootState,  
docsDevServerDhcpAddressType,  
docsDevServerDhcpAddress,  
docsDevServerTimeAddressType,

```

docsDevServerTimeAddress,
docsDevServerConfigTftpAddressType,
docsDevServerConfigTftpAddress,
docsDevServerConfigFile
}
STATUS    current
DESCRIPTION
    "A collection of objects providing status about server
    provisioning. This group replaces docsDevServerGroup."
::= { docsDevGroupsV2 5 }

```

#### docsDevEventGroupV2 OBJECT-GROUP

```

OBJECTS {
docsDevEvControl,
docsDevEvThrottleAdminStatus,
docsDevEvThrottleThreshold,
docsDevEvThrottleInterval,
docsDevEvReporting,
docsDevEvFirstTime,
docsDevEvLastTime,
docsDevEvCounts,
docsDevEvLevel,
docsDevEvId,
docsDevEvText,
docsDevEvSyslogAddressType,
docsDevEvSyslogAddress,
docsDevEvThrottleThresholdExceeded
}
STATUS    current
DESCRIPTION
    "A collection of objects used to control and monitor
    events. This group replaces docsDevEventGroup.
    The event reporting mechanism, and more specifically
    docsDevEvReporting, can be used to take advantage of
    the event reporting features of RFC3413 and RFC3014."
::= { docsDevGroupsV2 6 }

```

#### docsDevFilterLLCGroup OBJECT-GROUP

```

OBJECTS {
docsDevFilterLLCUnmatchedAction,
docsDevFilterLLCStatus,
docsDevFilterLLCIfIndex,
docsDevFilterLLCProtocolType,
docsDevFilterLLCProtocol,
docsDevFilterLLCMatches
}

```

STATUS

current

DESCRIPTION

"A collection of objects to specify link layer filters."

::= { docsDevGroupsV2 7 }

docsDevInetCpeGroup OBJECT-GROUP

OBJECTS {

docsDevCpeEnroll,

docsDevCpeIpMax,

docsDevCpeInetSource,

docsDevCpeInetRowStatus

}

STATUS current

DESCRIPTION

"A collection of objects used to control the number and specific values of Internet (e.g., IPv4 and IPv6) addresses allowed for associated Customer Premises Equipment (CPE)."

::= { docsDevGroupsV2 8 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB

No license file was found, but licenses were detected in source scan.

PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,

OBJECT-TYPE,

Integer32,

Unsigned32,

mib-2

FROM SNMPv2-SMI -- [RFC2578]

InetAddressType,

InetAddress,

InetPortNumber

FROM INET-ADDRESS-MIB -- [RFC4001]

TEXTUAL-CONVENTION,

RowStatus,

TruthValue

FROM SNMPv2-TC -- [RFC2579]

OBJECT-GROUP,  
MODULE-COMPLIANCE  
FROM SNMPv2-CONF -- [RFC2580]  
SnmpAdminString  
FROM SNMP-FRAMEWORK-MIB -- [RFC3411]  
ifIndex  
FROM IF-MIB -- [RFC2863]  
Dscp  
FROM DIFFSERV-DSCP-TC; -- [RFC3289]

pkcIetfSigMib MODULE-IDENTITY

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ORGANIZATION "IETF IPCDN Working Group"

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DESCRIPTION

"This MIB module supplies the basic management objects for the PacketCable and IPCablecom Signaling protocols. This version of the MIB includes common signaling and Network Call Signaling

(NCS)-related signaling objects.

Copyright (C) The IETF Trust (2008). This version of this MIB module is part of RFC 5098; see the RFC itself for full legal notices."

REVISION "200712180000Z"

DESCRIPTION

"Initial version, published as RFC 5098."

::= { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION represents power levels that are normally expressed in dBm. Units are in tenths of a dBm; for example, -13.5 dBm will be represented as -135."

SYNTAX Integer32

PktcCodecType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This TEXTUAL-CONVENTION defines various types of codecs

that MAY be supported. The description for each enumeration is listed below:

Enumeration Description

other a defined codec not in the enumeration

unknown a codec not defined by the PacketCable

Codec Specification

g729 ITU-T Recommendation G.729

reserved for future use

g729E ITU-T Recommendation G.729E

pcmu Pulse Code Modulation u-law (PCMU)

g726at32 ITU-T Recommendation G.726-32 (32 kbit/s)

g728 ITU-T Recommendation G.728

pcma Pulse Code Modulation a-law (PCMA)

|          |                                           |
|----------|-------------------------------------------|
| g726at16 | ITU-T Recommendation G.726-16 (16 kbit/s) |
| g726at24 | ITU-T Recommendation G.726-24 (24 kbit/s) |
| g726at40 | ITU-T Recommendation G.726-40 (40 kbit/s) |
| ilbc     | IETF Internet low-bit rate codec          |
| bv16     | Broadcom BroadVoice16                     |

The list of codecs is consistent with the IETF Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video Codecs Specification [PKT-SP-CODEC]. The literal codec name for each codec is listed below:

| Codec    | Literal Codec Name |
|----------|--------------------|
| g729     | G729               |
| g729E    | G729E              |
| pcmu     | PCMU               |
| g726at32 | G726-32            |
| g728     | G728               |
| pcma     | PCMA               |
| g726at16 | G726-16            |
| g726at24 | G726-24            |
| g726at40 | G726-40            |
| ilbc     | iLBC               |
| bv16     | BV16               |

The literal codec name is the second column of the table with codec RTP Map Parameters. The Literal Codec Name Column contains the codec name used in the local connection options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to identify the codec in the Call Management System (CMS) Provisioning Specification. The RTP Map Parameter column of the Table contains the string used in the media attribute line (a=) of the session description protocol (SDP) parameters in NCS messages."

SYNTAX INTEGER {

- other (1),
- unknown (2),
- g729 (3),
- reserved (4),
- g729E (5),
- pcmu (6),
- g726at32 (7),
- g728 (8),



```
    pcma    (9),
    g726at16 (10),
    g726at24 (11),
    g726at40 (12),
    ilbc    (13),
    bv16    (14)
}
```

PktnRingCadence ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This object provides an encoding scheme for ring

cadences, including repeatability

characteristics. All

fields in this object MUST be encoded in network-byte order.

The first three higher-order octets are reserved. The octets that follow are used to encode a 'bit-string', with each bit corresponding to 50 milliseconds. A bit value of '1' indicates the presence of a ring-tone, and a bit value of '0' indicates the absence of a ring-tone, for that duration (50 ms) (Note: A minimum number of octets required to encode the bit-string MUST be used).

The first two of the reserved octets MUST indicate the length of the encoded cadence (in bits) and MUST range between 1 and 264. (Note: The length in bits MUST also be consistent with the number of octets that encode the cadence). The MTA MUST ignore any unused bits in the last octet, but MUST reflect the value as provided on subsequent SNMP GETs.

The third of the reserved octets indicates 'repeatability' and MUST be either 0x80 or 0x00 -- the former value indicating 'non-repeatability', and the latter indicating 'repeatability'.

The MTA MUST reject attempts to set a value that violates any of the above requirements."

SYNTAX OCTET STRING (SIZE(4..36))

PktcSigType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This object lists the various types of signaling that may be supported:

other(1) - set when signaling other than NCS is used

ncs(2) - Network Call Signaling is a derivation of MGCP (Media Gateway Control Protocol) defined for IPCablecom/PacketCable MTAs."

SYNTAX INTEGER {

other(1),

ncs(2)

}

DtmfCode::=TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION represents the Dual-Tone Multi-Frequency (DTMF) Character used to indicate the start or end of the digit transition sequence used for caller id or Visual Message Waiting Indicator (VMWI).

Note: The DTMF code '\*' is indicated using 'dtmfcodeStar', and the DTMF code '#' is indicated using ' dtmfcodeHash'."

SYNTAX INTEGER {

dtmfcode0(0),

dtmfcode1(1),

dtmfcode2(2),

dtmfcode3(3),

dtmfcode4(4),

dtmfcode5(5),

dtmfcode6(6),

dtmfcode7(7),

dtmfcode8(8),

dtmfcode9(9),

dtmfcodeStar(10),

dtmfcodeHash(11),

dtmfcodeA(12),

dtmfcodeB(13),

dtmfcodeC(14),

dtmfcodeD(15)

}

PktcSubscriberSideSigProtocol::=TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION

represents the Signaling

protocol being used for purposes such as caller id  
or VMWI.

A value of fsk(1) indicates Frequency Shift Keying  
(FSK).

A value of dtmf(2) indicates Dual-Tone Multi-Frequency  
(DTMF)."

SYNTAX INTEGER {

fsk(1),

dtmf(2)

}

pktcSigMibObjects OBJECT IDENTIFIER ::= { pktcIetfSigMib 1 }

pktcSigDevObjects OBJECT IDENTIFIER ::=

{ pktcSigMibObjects 1 }

pktcSigEndPntConfigObjects OBJECT IDENTIFIER ::=

{ pktcSigMibObjects 2 }

--

-- The codec table (pktcSigDevCodecTable) defines all combinations

-- of codecs supported by the Multimedia Terminal Adapter (MTA).

--

pktcSigDevCodecTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevCodecEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the MTA-supported codec types. An MTA  
MUST populate this table with all possible combinations of  
codecs it supports for simultaneous operation. For example,  
an MTA with two endpoints may be designed with a particular  
Digital Signal Processing (DSP) and memory architecture that  
allows it to support the following fixed combinations of  
codecs for simultaneous operation:

| Codec Type | Maximum Number of Simultaneous Codecs |
|------------|---------------------------------------|
|------------|---------------------------------------|

|      |   |
|------|---|
| PCMA | 3 |
|------|---|

|      |   |
|------|---|
| PCMA | 2 |
|------|---|

|      |   |
|------|---|
| PCMU | 1 |
| PCMA | 1 |
| PCMU | 2 |
| PCMU | 3 |
| PCMA | 1 |
| G729 | 1 |
| G729 | 2 |
| PCMU | 1 |
| G729 | 1 |

Based on this example, the entries in the codec table would be:

| pkcSigDev       | pkcSigDev | pkcSigDev |
|-----------------|-----------|-----------|
| CodecComboIndex | CodecType | CodecMax  |
| 1               | pcma      | 3         |
| 2               | pcma      | 2         |
| 2               | pcmu      | 1         |
| 3               | pcma      | 1         |
| 3               | pcmu      | 2         |
| 4               | pcmu      | 3         |
| 5               | pcma      | 1         |
| 5               | g729      | 1         |
| 6               | g729      | 2         |
| 7               | pcmu      | 1         |
| 7               | g729      | 1         |

An operator querying this table is able to determine all possible codec combinations the MTA is capable of simultaneously supporting.

This table MUST NOT include non-voice codecs."

```
::=
{ pkcSigDevObjects 1 }
```

```
pkcSigDevCodecEntry OBJECT-TYPE
SYNTAX PkcSigDevCodecEntry
MAX-ACCESS not-accessible
```

STATUS current

DESCRIPTION

"Each entry represents the maximum number of active connections with a particular codec the MTA is capable of supporting. Each row is indexed by a composite key consisting of a number enumerating the particular codec combination and the codec type."

INDEX { pktcSigDevCodecComboIndex, pktcSigDevCodecType }

::= { pktcSigDevCodecTable 1 }

```
PktcSigDevCodecEntry ::= SEQUENCE {  
    pktcSigDevCodecComboIndex Unsigned32,  
    pktcSigDevCodecType PktcCodecType,  
    pktcSigDevCodecMax Unsigned32  
}
```

pktcSigDevCodecComboIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The index value that enumerates a particular codec combination in the pktcSigDevCodecTable."

::=

{ pktcSigDevCodecEntry 1 }

pktcSigDevCodecType OBJECT-TYPE

SYNTAX PktcCodecType

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" A codec type supported by this MTA."

::= { pktcSigDevCodecEntry 2 }

pktcSigDevCodecMax OBJECT-TYPE

SYNTAX Unsigned32(1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" The maximum number of simultaneous sessions of a particular codec that the MTA can support."

::= { pktcSigDevCodecEntry 3 }

--

-- These are the common signaling-related definitions that affect

-- the entire MTA device.

--

pkcSigDevEchoCancellation OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of echo cancellation. The MTA MUST set this MIB object to a value of true(1) if it is capable of echo cancellation, and a value of false(2) if not."

::= { pkcSigDevObjects 2 }

pkcSigDevSilenceSuppression OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of silence suppression (as a result of Voice Activity Detection). The MTA MUST set this MIB object to a value of true(1) if it is capable of silence suppression, and a value of false(2) if not."

::= { pkcSigDevObjects 3 }

pkcSigDevCidSigProtocol OBJECT-TYPE

SYNTAX PkcSubscriberSideSigProtocol

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to configure the subscriber-line protocol used for signaling on-hook caller id information.

Different countries define different caller id signaling protocols to support caller identification.

Setting this object at a value fsk(1) sets the subscriber line protocol to be Frequency Shift Keying (FSK).

Setting this object at a value dtmf(2) sets the subscriber line protocol to be Dual-Tone Multi-Frequency (DTMF).

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { fsm }

::= { pktcSigDevObjects 4 }

pktcSigDevR0Cadence OBJECT-TYPE

SYNTAX PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 0 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 5 }

pktcSigDevR1Cadence OBJECT-TYPE

SYNTAX PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 1 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 6 }

pktcSigDevR2Cadence OBJECT-TYPE

SYNTAX PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 2 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 7 }

pktcSigDevR3Cadence OBJECT-TYPE

SYNTAX PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 3 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 8 }

pktcSigDevR4Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 4 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 5 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 6 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 11 }



pkcSigDevR7Cadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
" This object specifies ring cadence 7 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."  
 ::= { pkcSigDevObjects 12 }

pkcSigDevRgCadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
" This object specifies ring cadence rg (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."  
 ::= { pkcSigDevObjects 13 }

pkcSigDevRsCadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
" This object specifies ring cadence rs (a user-defined field). The MTA MUST reject any attempt to make this object repeatable.

The value of this MIB object MUST NOT persist across MTA reboots."  
 ::= { pkcSigDevObjects 14 }

pkcSigDefCallSigDscp OBJECT-TYPE  
SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"

The default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for call

signaling.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for media stream packets. The MTA MUST NOT update this object with the value supplied by the CMS in the NCS messages (if present). Any currently active connections are not affected by updates to this object. When the value of this object is updated by SNMP, the MTA MUST use the new value as a default starting only from new connections.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 16 }

--

-- pktcSigCapabilityTable - This table defines the valid signaling

-- types supported by this MTA.

--

pktcSigCapabilityTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the signaling types supported by this MTA."

::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry OBJECT-TYPE

SYNTAX PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Entries in pktcMtaDevSigCapabilityTable - list of

supported signaling types, versions, and vendor extensions

for this MTA. Each entry in the list provides for one signaling type and version combination. If the device supports multiple versions of the same signaling type, it

will require multiple entries."

INDEX { pktcSigCapabilityIndex }

::= { pktcSigCapabilityTable 1 }

```
PktcSigCapabilityEntry ::= SEQUENCE {
    pktcSigCapabilityIndex      Unsigned32,
    pktcSigCapabilityType      PktcSigType,
    pktcSigCapabilityVersion    SnmpAdminString,
    pktcSigCapabilityVendorExt SnmpAdminString
}
```

pktcSigCapabilityIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The index value that uniquely identifies an entry in the pktcSigCapabilityTable."

::= { pktcSigCapabilityEntry 1 }

pktcSigCapabilityType OBJECT-TYPE

SYNTAX PktcSigType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object identifies the type of signaling used. This value has to be associated with a single signaling version."

::= { pktcSigCapabilityEntry

2 }

pktcSigCapabilityVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" Provides the version of the signaling type - reference pktcSigCapabilityType. Examples would be 1.0 or 2.33 etc."

::= { pktcSigCapabilityEntry 3 }

pktcSigCapabilityVendorExt OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" The vendor extension allows vendors to provide a list of

additional capabilities.

The syntax for this MIB object in ABNF ([RFC5234]) is specified to be zero or more occurrences of vendor extensions, as follows:

```
pktcSigCapabilityVendorExt = *(vendor-extension)
vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE
ext = DQUOTE %x58 DQUOTE
symbol = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)
alphanum = 1*6(ALPHA/DIGIT)
```

"

::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA User Datagram Protocol (UDP) receive port that is being used for NCS call signaling. This object should only be changed by the configuration file.

Unless changed via configuration, this MIB object MUST reflect a value of '2427'."

REFERENCE

"PacketCable NCS Specification"

::= { pktcSigDevObjects 18 }

pktcSigPowerRingFrequency OBJECT-TYPE

SYNTAX INTEGER {

f20Hz(1),

f25Hz(2),

f33Point33Hz(3),

f50Hz(4),

f15Hz(5),

f16Hz(6),

```
f22Hz(7),
f23Hz(8),
f45Hz(9)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object must only be provided via the configuration
file during the provisioning process. The power ring
```

frequency is the frequency at which the sinusoidal voltage must travel down the twisted pair to make terminal equipment ring. Different countries define different electrical characteristics to make terminal equipment ring.

The f20Hz setting corresponds to a power ring frequency of 20 Hertz. The f25Hz setting corresponds to a power ring frequency of 25 Hertz. The f33Point33Hz setting corresponds to a power ring frequency of 33.33 Hertz. The f50Hz setting corresponds to a power ring frequency of 50 Hertz. The f15Hz setting corresponds to a power ring frequency of 15 Hertz. The f16Hz setting corresponds to a power ring frequency of 16 Hertz. The f22Hz setting corresponds to a power ring frequency of 22 Hertz. The f23Hz setting corresponds to a power ring frequency of 23 Hertz. The f45Hz setting corresponds to a power ring frequency of 45 Hertz."

#### REFERENCE

```
"ETSI-EN-300-001"
::= { pktcSigDevObjects 19 }
```

pktcSigPulseSignalTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF PktcSigPulseSignalEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

#### DESCRIPTION

```
" The Pulse signal table defines the pulse signal operation.
There are nine types of international pulse signals,
with each signal having a set of provisionable parameters.
The values of the MIB objects in this table take effect
only if these parameters are not defined via signaling, in
which case, the latter determines the values of the
parameters. The MIB objects in this table do not persist
across MTA reboots."
```

REFERENCE

"ETSI-TS-101-909-4 Specification"

```
::= { pktcSigDevObjects  
20 }
```

pktcSigPulseSignalEntry OBJECT-TYPE

SYNTAX PktcSigPulseSignalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the set of parameters associated with each particular value of pktcSigPulseSignalType. Each entry in the pktcSigPulseSignalTable is indexed by the pktcSigPulseSignalType object.

The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcSigPulseSignalType }

```
::= { pktcSigPulseSignalTable 1 }
```

PktcSigPulseSignalEntry ::= SEQUENCE {

```
  pktcSigPulseSignalType      INTEGER,  
  pktcSigPulseSignalFrequency  INTEGER,  
  pktcSigPulseSignalDbLevel   TenthdBm,  
  pktcSigPulseSignalDuration  Unsigned32,  
  pktcSigPulseSignalPulseInterval  Unsigned32,  
  pktcSigPulseSignalRepeatCount  Unsigned32
```

```
}
```

pktcSigPulseSignalType OBJECT-TYPE

SYNTAX INTEGER

```
{
```

```
  initialRing(1),  
  pulseLoopClose(2),  
  pulseLoopOpen(3),  
  enableMeterPulse(4),  
  meterPulseBurst(5),  
  pulseNoBattery(6),  
  pulseNormalPolarity(7),  
  pulseReducedBattery(8),  
  pulseReversePolarity(9)
```

```
}
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"There are nine types of international pulse signals. These signals are defined as follows:

initial ring  
pulse loop close  
pulse loop open  
enable meter pulse  
meter pulse burst  
pulse no battery  
pulse normal polarity  
pulse reduced battery  
pulse reverse polarity"

REFERENCE

"ETSI-EN-300-324-1 Specification"

::= { pktcSigPulseSignalEntry 1 }

pktcSigPulseSignalFrequency OBJECT-TYPE

SYNTAX INTEGER {

twentyfive(1),

twelvethousand(2),

sixteenthousand(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object is only applicable to the initialRing, enableMeterPulse, and meterPulseBurst signal types. This object identifies the frequency of the generated signal. The following table defines the default values for this object depending on signal type:

| pktcSigPulseSignalType | Default |
|------------------------|---------|
| initialRing            | 25      |
| enableMeterPulse       | 16000   |
| meterPulseBurst        | 16000   |

The value of twentyfive MUST only be used for the initialRing signal type. The values of twelvethousand and sixteenthousand MUST only be used for enableMeterPulse and meterPulseBurst signal types. An attempt to set this object while the value of pktcSigPulseSignalType is not initialRing, enableMeterPulse, or meterPulseBurst will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-001 Specification"

::= { pktcSigPulseSignalEntry 2 }

pktcSigPulseSignalDbLevel OBJECT-TYPE

SYNTAX TenthdBm (-350..0)

UNITS "1/10 of a dBm"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object is only applicable to the enableMeterPulse and meterPulseBurst signal types. This is the decibel level for each frequency at which tones could be generated at the a and b terminals (TE connection point). An attempt to set this object while the value of pktcSigPulseSignalType is not enableMeterPulse or meterPulseBurst will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-001 Specification"

DEFVAL { -135 }

::={pktcSigPulseSignalEntry 3 }

pktcSigPulseSignalDuration OBJECT-TYPE

SYNTAX Unsigned32  
(0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the pulse duration for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object depending on the signal type:

| pktcSigPulseSignaltype | Default (ms) | Increment (ms) |
|------------------------|--------------|----------------|
| initialRing            | 200          | 50             |
| pulseLoopClose         | 200          | 10             |
| pulseLoopOpen          | 200          | 10             |
| enableMeterPulse       | 150          | 10             |
| meterPulseBurst        | 150          | 10             |
| pulseNoBattery         | 200          | 10             |
| pulseNormalPolarity    | 200          | 10             |
| pulseReducedBattery    | 200          | 10             |
| pulseReversePolarity   |              |                |



An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

## REFERENCE

"ETSI-EN-300-324-1 Specification"

::= { pktcSigPulseSignalEntry 4 }

## pktcSigPulseSignalPulseInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

" This object specifies the repeat interval, or the period, for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object, depending on the signal type:

| pktcSigPulseSignaltype | Default (ms) | Increment (ms) |
|------------------------|--------------|----------------|
| initialRing            | 200          | 50             |
| pulseLoopClose         | 1000         | 10             |
| pulseLoopOpen          | 1000         | 10             |
| enableMeterPulse       | 1000         | 10             |
| meterPulseBurst        | 1000         | 10             |
| pulseNoBattery         | 1000         | 10             |
| pulseNormalPolarity    | 1000         | 10             |
| pulseReducedBattery    | 1000         | 10             |
| pulseReversePolarity   | 1000         | 10             |

An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

## REFERENCE

"ETSI-EN-300-324-1 Specification"

::= { pktcSigPulseSignalEntry 5 }

## pktcSigPulseSignalRepeatCount OBJECT-TYPE

SYNTAX Unsigned32 (1..50)

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object specifies how many times to repeat a pulse. This object is not used by the enableMeterPulse signal type, and in that case, the value is irrelevant. The following table defines the default values and the valid ranges for this object, depending on the signal type:

| pktcSigPulseSignaltype | Default     | Range          |
|------------------------|-------------|----------------|
| initialRing            | 1           | 1-5            |
| pulseLoopClose         | 1           | 1-50           |
| pulseLoopOpen          | 1           | 1-50           |
| enableMeterPulse       | (any value) | (but not used) |
| meterPulseBurst        | 1           | 1-50           |
| pulseNoBattery         | 1           | 1-50           |
| pulseNormalPolarity    | 1           | 1-50           |
| pulseReducedBattery    | 1           | 1-50           |
| pulseReversePolarity   | 1           | 1-50           |

An attempt to set this object to a value that does not fall within the range for the specific signal type will result in an 'inconsistentValue' error."

::={ pktcSigPulseSignalEntry 6 }

pktcSigDevCidMode OBJECT-TYPE

```
SYNTAX INTEGER {
    duringRingingETS(1),
    dtAsETS(2),
    rpAsETS(3),

    lrAsETS(4),
    lrETS(5)
}
```

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" For on-hook caller id, pktcSigDevCidMode selects the method for representing and signaling caller identification. For the duringRingingETS method, the Frequency Shift Keying (FSK) or the Dual-Tone Multi-Frequency (DTMF) containing the caller identification information is sent between the first and second ring pattern.

For the dtAsETS,rpAsETS, lrAsETS and lrETS methods, the FSK or DTMF containing the caller id information is sent before the first ring pattern.

For the dtAsETS method, the FSK or DTMF is sent after the Dual Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
DEFVAL { rpAsETS }
 ::= { pktcSigDevObjects 21 }
```

pktcSigDevCidAfterRing OBJECT-TYPE

SYNTAX Unsigned32 (0|50..2000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of first ringing pattern and the start of the transmission of the FSK or DTMF containing the caller id information. It is only used when pktcSigDevCidMode is set to a value of 'duringRingingETS'.

The following table defines the default values for this MIB object, depending on the signal type

(pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | 550 ms               |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | any value (not used) |

lrETS any value (not used)

An attempt to set this object while the value of pktcSigDevCidMode is not duringringingETS will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 550 }

::= {pktcSigDevObjects 22 }

pktcSigDevCidAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the FSK or DTMF containing the caller id information. This object is only used when pktcSigDevCidMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode Default value

|                  |                      |
|------------------|----------------------|
| duringringingETS | any value (not used) |
| dtAsETS          | 50 ms                |
| rpAsETS          | any value (not used) |
| lrAsETS          | 50 ms                |
| lrETS            | any value (not used) |

An attempt to set this object while the value of

pktcSigDevCidMode is not 'dtAsETS' or 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 23 }

pktcSigDevCidAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the caller id information. This MIB object is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'. The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | 650 ms               |
| lrAsETS                    | any value (not used) |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID OBJECT-TYPE

SYNTAX Unsigned32 (0|50..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the complete transmission of the FSK or DTMF containing the caller

id information and the start of the first ring

pattern. It is only used when pktcSigDevCidMode is set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or 'lrETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | 250 ms               |
| rpAsETS                    | 250 ms               |
| lrAsETS                    | 250 ms               |
| lrETS                      | 250 ms               |

An attempt to set this object while the value of pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS', 'lrAsETS', or 'lrETS' will result in an 'inconsistent value' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS). This object is only used when pktcSigDevCidMode is set to a value of 'lrAsETS'.

The following table defines the default values

for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | 250 ms               |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not lrAsETS will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode OBJECT-TYPE

```
SYNTAX INTEGER {
    dtAsETS(1),
    rpAsETS(2),
    lrAsETS(3),
    osi(4),
    lrETS(5)
}
```

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" For visual message waiting indicator (VMWI), pktcSigDevVmwiMode selects the alerting signal method. For the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods, the FSK containing the VMWI information is sent after an alerting signal.

For the dtAsETS method, the FSK, or DTMF

is sent after the Dual Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the OSI method, the FSK or DTMF is sent after the Open Switching Interval.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
DEFVAL { rpAsETS }  
 ::= { pktcSigDevObjects 27 }
```

pktcSigDevVmwiAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the

FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value |
|-----------------------------|---------------|
|-----------------------------|---------------|

|         |                      |
|---------|----------------------|
| dtAsETS | 50 ms                |
| rpAsETS | any value (not used) |
| lrAsETS | 50 ms                |
| lrETS   | any value (not used) |

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will



result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 28  
}

pktcSigDevVmwiAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value |
|-----------------------------|---------------|
|-----------------------------|---------------|

|         |                      |
|---------|----------------------|
| dtAsETS | any value (not used) |
|---------|----------------------|

|         |        |
|---------|--------|
| rpAsETS | 650 ms |
|---------|--------|

|         |                      |
|---------|----------------------|
| lrAsETS | any value (not used) |
|---------|----------------------|

|       |                      |
|-------|----------------------|
| lrETS | any value (not used) |
|-------|----------------------|

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }  
 ::= { pktcSigDevObjects 29 }

pktcSigDevVmwiDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS) for VMWI information. This object is only used when pktcSigDevVmwiMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value        |
|-----------------------------|----------------------|
| dtAsETS                     | any value (not used) |
| rpAsETS                     | any value (not used) |
| lrAsETS                     | 250 ms               |
| lrETS                       | any value (not used) |

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }  
 ::= { pktcSigDevObjects 30 }

pktcSigDevRingCadenceTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevRingCadenceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Cadence rings are defined by the telco governing body for each country. The MTA must be able to support various ranges of cadence patterns and cadence periods.

The MTA will be able to support country-specific provisioning of the cadence and idle period. Each cadence pattern will be assigned a unique value ranging from 0-127 (inclusive) corresponding to the value of x, where x is the value sent in the cadence ringing (cr) signal cr(x), requested per the appropriate NCS message, and defined in the E package. The MTA will derive the cadence periods from the ring cadence table entry, as provisioned by the customer. The MTA is allowed to provide appropriate default values for each of the ring cadences. This table only needs to be supported when the MTA implements the E package."

#### REFERENCE

"ETSI-TS-101-909-4 Specification"

::= { pktcSigDevObjects 31 }

pktcSigDevRingCadenceEntry OBJECT-TYPE

SYNTAX PktcSigDevRingCadenceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Each entry in this row corresponds to a ring cadence that is being supported by the device. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcSigDevRingCadenceIndex }

::= { pktcSigDevRingCadenceTable 1 }

PktcSigDevRingCadenceEntry ::= SEQUENCE {  
    pktcSigDevRingCadenceIndex Unsigned32,  
    pktcSigDevRingCadence PktcRingCadence  
}

pktcSigDevRingCadenceIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..127)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" A unique value ranging from 0 to 127 that corresponds to the value sent by the LE based on country-specific cadences, one row per cadence cycle. In any given system implementation for a particular country, it is anticipated that a small number of ring cadences will be in use. Thus, this table most likely will not be populated to its full

```
size."
 ::= { pktcSigDevRingCadenceEntry
 1 }
```

pktcSigDevRingCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is the Ring Cadence."

```
 ::= { pktcSigDevRingCadenceEntry 2 }
```

pktcSigDevToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevToneEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The Tone Table defines the composition of tones and various tone operations.

The definition of the tones callWaiting1 through callWaiting4 in this table MUST only contain the audible tone itself; the delay between tones or the value of the tone repeat count are not applicable for the call waiting tones.

The delay between tones or the repeat count is controlled by the objects pktcSigEndPntConfigCallWaitingDelay and pktcSigEndPntConfigCallWaitingMaxRep. If the pktcSigDevToneType is set to either

of the values

callWaiting1, callWaiting2, callWaiting3, or callWaiting4, then the value of the pktcSigDevToneWholeToneRepeatCount object indicates that the particular frequency group is applicable, as a repeatable part of the tone, based on the value of the MIB object pktcSigDevToneWholeToneRepeatCount.

The MTA MUST make sure that, after the provisioning cycle, the table is fully populated (i.e., for each possible index, an entry MUST be defined) using reasonable defaults for each row that was not defined by the provisioning information delivered via MTA Configuration.

The frequency composition of each tone is defined by the `pkcSigDevMultiFreqToneTable`. For each tone type defined in `pkcSigDevToneTable`, the MTA MUST populate at least one entry in the `pkcSigDevMultiFreqToneTable`.

For each particular value of `pkcSigDevToneType`, the `pkcSigDevToneTable` table can define non-repeating and repeating groups of the frequencies defined by the `pkcSigDevMultiFreqToneTable`, such that each group is represented by the set of the consecutive rows (frequency group) in the `pkcSigDevMultiFreqToneTable`.

Objects in this table do not persist across MTA reboots. For tones with multiple frequencies refer to the MIB table `pkcSigDevMultiFreqToneTable`."

#### REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4 Specification."

::= { `pkcSigDevObjects` 32 }

`pkcSigDevToneEntry` OBJECT-TYPE

SYNTAX `PkcSigDevToneEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The different tone types that can be provisioned based on country-specific needs.

Each entry contains the tone generation parameters for a specific frequency group of the specific Tone Type.

The different parameters can be provisioned via MTA configuration based on country specific needs.

An MTA MUST populate all entries of this table for each tone type."

INDEX { `pkcSigDevToneType`, `pkcSigDevToneFreqGroup` }

::= { `pkcSigDevToneTable` 1 }

`PkcSigDevToneEntry` ::= SEQUENCE {

`pkcSigDevToneType` INTEGER,

`pkcSigDevToneFreqGroup` Unsigned32,

`pkcSigDevToneFreqCounter` Unsigned32,

`pkcSigDevToneWholeToneRepeatCount` Unsigned32,

pkcSigDevToneSteady TruthValue  
}

pkcSigDevToneType OBJECT-TYPE

SYNTAX INTEGER {

busy(1),  
confirmation(2),  
dial(3),  
messageWaiting(4),  
offHookWarning(5),  
ringBack(6),  
reOrder(7),  
stutterdial(8),  
callWaiting1(9),

callWaiting2(10),  
callWaiting3(11),  
callWaiting4(12),  
alertingSignal(13),  
specialDial(14),  
specialInfo(15),  
release(16),  
congestion(17),  
userDefined1(18),  
userDefined2(19),  
userDefined3(20),  
userDefined4(21)  
}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique value that will correspond to the different tone types. These tones can be provisioned based on country-specific needs. This object defines the type of tone being accessed.

The alertingSignal, specialDial, specialInfo, release,

congestion, userDefined1, userDefined2, userDefined3, and userDefined4 tone types are used in the E line package."

::= { pkcSigDevToneEntry 1 }

pkcSigDevToneFreqGroup OBJECT-TYPE

SYNTAX Unsigned32(1..4)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This MIB object represents the Tone Sequence reference of a multi-sequence tone."

::={ pktcSigDevToneEntry 2 }

pktcSigDevToneFreqCounter OBJECT-TYPE

SYNTAX Unsigned32(1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the number of consecutive multi-frequency tones for the particular tone type in the multi-frequency table (pktcSigDevMultiFreqToneTable).

Such a sequence of the consecutive multi-frequency tones forms the tone group for the particular tone type in the pktcSigDevToneTable."

::={ pktcSigDevToneEntry 3 }

pktcSigDevToneWholeToneRepeatCount OBJECT-TYPE

SYNTAX Unsigned32 (0..5000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is the repeat count, which signifies how many times to repeat the entire on-off cadence sequence. Setting this object may result in a cadence duration longer or shorter than the overall signal duration specified by the time out (TO) object for a particular signal. If the repeat count results in a longer tone duration than the signal duration specified by the TO, the tone duration defined by the TO object for a particular signal always represents the overall signal duration for a tone. In this case, the tone duration repeat count will not be fully exercised, and the desired tone duration will be truncated per the TO setting. If the repeat count results in a shorter tone duration than the signal duration specified by the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case,

the TO represents a

time not to be exceeded for the signal.

It is recommended to ensure proper telephony signaling so that the TO duration setting should always be longer than the desired repeat count-time duration."

```
::={ pktcSigDevToneEntry 4 }
```

pktcSigDevToneSteady OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the steady tone status. A value of 'true(1)' indicates that the steady tone is applied, and a value of 'false(2)' indicates otherwise.

Devices must play out the on-off cadence sequence for the number of times indicated by the MIB object 'pktcSigDevToneWholeToneRepeatCount' prior to applying the last tone steadily, indefinitely. If the MIB table 'pktcSigDevToneTable' contains multiple rows with this Object set to a value of 'true(1)', the steady tone is applied to the last repeating frequency

group of the tone.

Setting this MIB object may result in a tone duration that is longer or shorter than the overall signal duration specified by the time out (TO) MIB object for a particular signal. If the repeat count results in a longer tone duration than the signal duration specified by the TO, the tone duration defined by the TO object for a particular signal always represents the overall signal duration for a tone. In this case, the tone duration repeat count will not be fully exercised, and the desired tone duration will be truncated per the TO setting. If the repeat count results in a shorter tone duration than the signal duration specified by the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case, the TO represents a time not to be exceeded for the signal.

It is recommended to ensure proper telephony signaling that

The TO duration setting should always be longer than the desired repeat count-time duration, plus the desired maximum steady tone period."

```
::={ pktcSigDevToneEntry 5 }
```

pktcSigDevMultiFreqToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevMultiFreqToneEntry



MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

" This MIB table defines the characteristics of tones with multiple frequencies. The constraints imposed on the tones by the MIB table pktcSigDevToneTable need to be considered for MIB objects in this table as well.

The MTA MUST populate the corresponding row(s) of the pktcSigDevMultiFreqToneTable for each tone defined in the pktcSigDevToneTable.

The contents of the table may be provisioned via MTA configuration."

#### REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4 Specification."

::= { pktcSigDevObjects 33 }

pktcSigDevMultiFreqToneEntry OBJECT-TYPE

SYNTAX PktcSigDevMultiFreqToneEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

" The different tone types with multiple frequencies that can be provisioned based on country-specific needs."

INDEX {pktcSigDevToneType, pktcSigDevToneNumber}

::= { pktcSigDevMultiFreqToneTable 1 }

PktcSigDevMultiFreqToneEntry ::= SEQUENCE {

|                               |             |
|-------------------------------|-------------|
| pktcSigDevToneNumber          | Unsigned32, |
| pktcSigDevToneFirstFreqValue  | Unsigned32, |
| pktcSigDevToneSecondFreqValue | Unsigned32, |
| pktcSigDevToneThirdFreqValue  | Unsigned32, |
| pktcSigDevToneFourthFreqValue | Unsigned32, |
| pktcSigDevToneFreqMode        | INTEGER,    |
| pktcSigDevToneFreqAmpModePrtg | Unsigned32, |
| pktcSigDevToneDbLevel         | TenthdBm,   |
| pktcSigDevToneFreqOnDuration  | Unsigned32, |
| pktcSigDevToneFreqOffDuration | Unsigned32, |
| pktcSigDevToneFreqRepeatCount | Unsigned32  |

}

pkcSigDevToneNumber OBJECT-TYPE

SYNTAX Unsigned32(1..8)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This MIB object represents the frequency reference  
of a multi-frequency tone."

::={ pkcSigDevMultiFreqToneEntry 1 }

pkcSigDevToneFirstFreqValue OBJECT-TYPE

SYNTAX Unsigned32(0..4000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the value of the first  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."

::={ pkcSigDevMultiFreqToneEntry 2 }

pkcSigDevToneSecondFreqValue

OBJECT-TYPE

SYNTAX Unsigned32(0..4000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the value of the second  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."

::={ pkcSigDevMultiFreqToneEntry 3 }

pkcSigDevToneThirdFreqValue OBJECT-TYPE

SYNTAX Unsigned32(0..4000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the value of the third  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."

::={ pkcSigDevMultiFreqToneEntry 4 }

pkcSigDevToneFourthFreqValue OBJECT-TYPE

SYNTAX Unsigned32(0..4000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the value of the fourth frequency of a tone type. A value of zero implies absence of the referenced frequency."  
::={ pktcSigDevMultiFreqToneEntry 5 }

pktcSigDevToneFreqMode OBJECT-TYPE

SYNTAX INTEGER {  
    firstModulatedBySecond(1),  
    summation(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object provides directive on the modulation or summation of the frequencies involved in the tone.

It is to be noted that while summation can be done without any constraint on the number of frequencies, the modulation (amplitude) holds good only when there are two frequencies (first and second).

Thus:

- If the mode is set to a value of 'firstModulatedBySecond(1)', the first frequency MUST be modulated by the second, and the remaining frequencies (third and fourth) ignored. The percentage of amplitude modulation to be applied is defined by the MIB object pktcSigDevToneFreqAmpModePrtg.

- If the mode is set to a value of 'summation(2)', all the frequencies MUST be summed without any modulation.

"

::={ pktcSigDevMultiFreqToneEntry 6 }

pktcSigDevToneFreqAmpModePrtg OBJECT-TYPE

SYNTAX Unsigned32(0..100)

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This MIB object represents the percentage of amplitude modulation applied to the second frequency when the MIB object pkcSigDevToneFreqMode is set to a value of 'firstModulatedBySecond (1)'.

If the MIB object pkcSigDevToneFreqMode is set to value of 'summation (2)', then this MIB object MUST be ignored."

::={ pkcSigDevMultiFreqToneEntry 7}

pkcSigDevToneDbLevel OBJECT-TYPE

SYNTAX TenthdBm (-250..-110)

UNITS

"1/10 of a dBm"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This MIB object contains the decibel level for each analog signal (tone) that is locally generated (versus in-band supervisory tones) and sourced to the a-b terminals (TE connection point). Each tone in itself may consist of multiple frequencies, as defined by the MIB table pkcSigDevMultiFreqToneTable.

This MIB object reflects the desired level at the Telco (POTS) a-b (T/R) terminals, including the effect of any MTA receiver gain (loss). This is required so that locally generated tones are consistent with remotely generated in-band tones at the a-b terminals, consistent with user expectations.

This MIB object must be set for each tone.

When tones are formed by combining multi-frequencies, the level of each frequency

shall be set so as to result

in the tone level specified in this object at the a-b (T/R) terminals.

The wide range of levels for this Object is required to provide signal-generator levels across the wide range of gains (losses) -- but does not imply the entire range is to be achievable given the range of gains (losses) in the MTA."

DEFVAL { -120 }

::={ pktcSigDevMultiFreqToneEntry 8}

pktcSigDevToneFreqOnDuration OBJECT-TYPE

SYNTAX Unsigned32(0..5000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the duration for which the frequency reference corresponding to the tone type is turned on."

::={ pktcSigDevMultiFreqToneEntry 9}

pktcSigDevToneFreqOffDuration OBJECT-TYPE

SYNTAX Unsigned32(0..5000)

UNITS "milliseconds"

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"This MIB object represents the duration for which the frequency reference corresponding to the tone type is turned off."

::={ pktcSigDevMultiFreqToneEntry 10}

pktcSigDevToneFreqRepeatCount OBJECT-TYPE

SYNTAX Unsigned32(0..5000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object indicates the number of times to repeat the cadence cycle represented by the on/off durations (refer to the MIB objects pktcSigDevToneFreqOnDuration and pktcSigDevToneFreqOffDuration).

Setting this object may result in a tone duration that is longer or shorter than the overall signal duration specified by the time out (TO) object for the corresponding tone type. If the value of this MIB Object indicates a longer duration than that specified by the TO, the latter overrules the former, and the desired tone duration will be truncated according to the TO.

However, if the repeat count results in a shorter tone duration than the signal duration specified by the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case, the TO represents a time not to be exceeded for the signal. It is recommended, to ensure proper telephony signaling, that the TO duration setting should always be longer than the desired repeat count-time duration. A value of zero means the tone sequence is to be played once but not repeated."

::={ pktcSigDevMultiFreqToneEntry 11 }

pktcSigDevCidDelayAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (300..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the delay between the end of the

Line Reversal and the start of the FSK or DTMF signal.

This MIB object is used only when pktcSigDevCidMode is set to a value of 'lrETS'. This timing has a range of 300 to 800 ms.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | any value (not used) |
| lrETS                      | 400                  |

An attempt to set this object while the value of pktcSigDevCidMode is not set to a value of 'lrETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 400 }  
 ::= { pktcSigDevObjects 34 }

pktcSigDevCidDtmfStartCode OBJECT-TYPE

SYNTAX DtmfCode  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object identifies optional start codes used when the MIB object pktcSigDevCidSigProtocol is set to a value of 'dtmf(2)'.

Different countries define different caller id signaling codes to support caller identification. When Dual-Tone Multi-Frequency (DTMF) is used, the caller id digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The start code for calling number delivery may be DTMF

'A' or 'D'. The start code for redirecting a number may be DTMF 'D'. The DTMF code 'B' may be sent by the network as a start code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA

reboots."

REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeA }  
 ::= { pktcSigDevObjects 35 }

pktcSigDevCidDtmfEndCode OBJECT-TYPE

SYNTAX DtmfCode  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object identifies optional end codes used when the pktcSigDevCidSigProtocol is set to a value of 'dtmf(2)'.

Different countries define different caller id signaling protocols to support caller identification. When

Dual-Tone Multi-Frequency (DTMF) is used, the caller id digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an end code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeC }

::= { pktcSigDevObjects 36 }

pktcSigDevVmwiSigProtocol OBJECT-TYPE

SYNTAX PkctSubscriberSideSigProtocol

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object identifies the subscriber line protocol used for signaling the information on Visual Message Waiting Indicator (VMWI). Different countries define different VMWI signaling protocols to support VMWI service.

Frequency shift keying (FSK) is most commonly used. DTMF is an alternative.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { fsk }

::= { pktcSigDevObjects 37 }

pktcSigDevVmwiDelayAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|300..800)



UNITS "Milliseconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object specifies the delay between the end of the Line Reversal and the start of the FSK or DTMF signal. This object is only used when pktcSigDevVmwiMode is set to a value of 'lrETS'. This timing has a range of 300 to 800 ms.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value        |
|-----------------------------|----------------------|
| duringringingETS            | any value (not used) |
| dtAsETS                     | any value (not used) |
| rpAsETS                     | any value (not used) |
| lrAsETS                     | any value (not used) |
| lrETS                       | 400                  |

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'lrETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL {400}  
 ::= {pktcSigDevObjects 38 }

pktcSigDevVmwiDtmfStartCode  
OBJECT-TYPE

SYNTAX DtmfCode  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object identifies optional start codes used when

the pktcSigDevVmwiSigProtocol is set to a value of 'dtmf(2)'. Different countries define different On Hook Data Transmission Protocol signaling codes to support VMWI.

When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The start code for redirecting VMWI may be DTMF 'D'. The DTMF code 'B' may be sent by the network as a start code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeA }

::= { pktcSigDevObjects 39 }

#### pktcSigDevVmwiDtmfEndCode OBJECT-TYPE

SYNTAX DtmfCode

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object identifies an optional end code used when the pktcSigDevVmwiSigProtocol is set to a value of 'dtmf(2)'. Different countries define different on-hook Data Transmission Protocol signaling codes to support VMWI.

When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an end code

for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeC }

::= { pktcSigDevObjects 40 }

pktcSigDevvpAsDtsDuration OBJECT-TYPE

SYNTAX Unsigned32 (0|200..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object specifies the duration of the rpASDTS ring

pulse prior to the start of the transmission of the FSK or DTMF containing the caller id information. It is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | 250                  |
| lrAsETS                    | any value (not used) |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 Specification and Belgacom

BGC\_D\_48\_9811\_30\_09\_EDOC version 3.3"

DEFVAL { 250 }

```
::= { pktcSigDevObjects 41 }
```

```
--  
-- The Endpoint Config Table is used to define attributes that  
-- are specific to connection EndPoints.  
--
```

```
pktcSigEndPntConfigTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF PktcSigEndPntConfigEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
" This table describes the information pertaining to each  
endpoint of the MTA. All entries in this table represent  
the provisioned endpoints provisioned with the information  
required by the MTA to maintain the NCS protocol  
communication with the CMS. Each endpoint can be assigned  
to its own CMS. If the specific endpoint does not have  
the corresponding CMS information in this table, the  
endpoint is considered as not
```

```
provisioned with voice
```

```
services. Objects in this table do not persist across  
MTA reboots."
```

```
::= { pktcSigEndPntConfigObjects 1 }
```

```
pktcSigEndPntConfigEntry OBJECT-TYPE
```

```
SYNTAX PktcSigEndPntConfigEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Each entry in the pktcSigEndPntConfigTable represents  
required signaling parameters for the specific endpoint  
provisioned with voice services. The conceptual rows MUST  
NOT persist across MTA reboots."
```

```
INDEX { ifIndex }
```

```
::= { pktcSigEndPntConfigTable 1 }
```

```
PktcSigEndPntConfigEntry ::= SEQUENCE {
```

```
pktcSigEndPntConfigCallAgentId SnmpAdminString,
```

```
pktcSigEndPntConfigCallAgentUdpPort InetPortNumber,
```

```
pktcSigEndPntConfigPartialDialTO Unsigned32,
```

```
pktcSigEndPntConfigCriticalDialTO Unsigned32,
```

```
pktcSigEndPntConfigBusyToneTO Unsigned32,
```

```
pktcSigEndPntConfigDialToneTO
```

Unsigned32,  
 pkteSigEndPntConfigMessageWaitingTO Unsigned32,  
 pkteSigEndPntConfigOffHookWarnToneTO Unsigned32,  
 pkteSigEndPntConfigRingingTO Unsigned32,  
 pkteSigEndPntConfigRingBackTO Unsigned32,  
 pkteSigEndPntConfigReorderToneTO Unsigned32,  
 pkteSigEndPntConfigStutterDialToneTO Unsigned32,

pkteSigEndPntConfigTSMMax Unsigned32,  
 pkteSigEndPntConfigMax1 Unsigned32,  
 pkteSigEndPntConfigMax2 Unsigned32,  
 pkteSigEndPntConfigMax1QEnable TruthValue,  
 pkteSigEndPntConfigMax2QEnable TruthValue,  
 pkteSigEndPntConfigMWD Unsigned32,  
 pkteSigEndPntConfigTdinit Unsigned32,  
 pkteSigEndPntConfigTdmin Unsigned32,  
 pkteSigEndPntConfigTdmax Unsigned32,  
 pkteSigEndPntConfigRtoMax Unsigned32,  
 pkteSigEndPntConfigRtoInit  
 Unsigned32,  
 pkteSigEndPntConfigLongDurationKeepAlive Unsigned32,  
 pkteSigEndPntConfigThist Unsigned32,  
 pkteSigEndPntConfigStatus RowStatus,  
 pkteSigEndPntConfigCallWaitingMaxRep Unsigned32,  
 pkteSigEndPntConfigCallWaitingDelay Unsigned32,  
 pkteSigEndPntStatusCallIpAddressType InetAddressType,  
 pkteSigEndPntStatusCallIpAddress InetAddress,  
 pkteSigEndPntStatusError INTEGER,  
 pkteSigEndPntConfigMinHookFlash Unsigned32,  
 pkteSigEndPntConfigMaxHookFlash Unsigned32,  
 pkteSigEndPntConfigPulseDialInterdigitTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMinMakeTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMaxMakeTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMinBreakTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMaxBreakTime Unsigned32  
 }

pkteSigEndPntConfigCallAgentId OBJECT-TYPE

SYNTAX SnmpAdminString(SIZE

(3..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains a string indicating the call agent name (e.g., ca@example.com). The call agent name, after the character '@', MUST be a fully qualified domain name

(FQDN) and MUST have a corresponding pktcMtaDevCmsFqdn entry in the pktcMtaDevCmsTable. The object pktcMtaDevCmsFqdn is defined in the PacketCable MIBMTA Specification. For each particular endpoint, the MTA MUST use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended not to change this object's value using SNMP during normal operation."

```
::= { pktcSigEndPntConfigEntry 1 }
```

pktcSigEndPntConfigCallAgentUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the current value of the User Datagram Protocol (UDP) receive port on which the call agent will receive NCS from the endpoint.

For each particular endpoint, the MTA MUST use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. If the Notified Entity parameter does not contain a CallAgent port, the MTA MUST update this object with the default value of 2727. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended

not

to change this object's value using SNMP during normal operation."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 2727 }

```
::= { pktcSigEndPntConfigEntry 2 }
```

pktcSigEndPntConfigPartialDialTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the value of the partial dial time out.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 3 }

pktcSigEndPntConfigCriticalDialTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS

"seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the value of the critical dial time out.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 4 }

::= { pktcSigEndPntConfigEntry 4 }

pktcSigEndPntConfigBusyToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for busy tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the

value of the object is modified by the SNMP Management

Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 30 }

::= { pktcSigEndPntConfigEntry 5 }

pktcSigEndPntConfigDialToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for dial tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present).

If

the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 6 }

pktcSigEndPntConfigMessageWaitingTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for message



waiting indicator. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Manager application, the MTA MUST use the new value as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

#### REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 7 }

pktcSigEndPntConfigOffHookWarnToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object contains the default time out value for the off-hook warning tone. The MTA MUST

NOT update this object

with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Manager

application, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

#### REFERENCE

"PacketCable NCS Specification"

DEFVAL { 0 }

::= { pktcSigEndPntConfigEntry 8 }

pktcSigEndPntConfigRingingTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for ringing. The MTA

MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 180 }

::= { pktcSigEndPntConfigEntry 9 }

pktcSigEndPntConfigRingBackTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for ring

back. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time

a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 180 }

::= { pktcSigEndPntConfigEntry 10 }

pktcSigEndPntConfigReorderToneTO OBJECT-TYPE

SYNTAX Unsigned32  
UNITS "seconds"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

" This object contains the default time out value for reorder tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 30 }  
::= { pktcSigEndPntConfigEntry 11 }

pktcSigEndPntConfigStutterDialToneTO OBJECT-TYPE

SYNTAX Unsigned32  
UNITS "seconds"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

" This object contains the default time out value for stutter dial tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the

corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 12 }

pktcSigEndPntConfigTSMMax OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object is used as part of an NCS retransmission algorithm. Prior to any retransmission, the MTA must check to make sure that the time elapsed since the sending of the initial datagram does not exceed the value specified by this MIB object. If more than Tsmax time has elapsed, then the retransmissions MUST cease.

Refer to the MIB object pktcSigEndPntConfigThist for information on when the endpoint becomes disconnected."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 20 }

::= { pktcSigEndPntConfigEntry 13 }

pktcSigEndPntConfigMax1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the suspicious error threshold for signaling messages. The pktcSigEndPntConfigMax1 object indicates the retransmission threshold at which the MTA MAY actively query the domain name server (DNS) in order to detect the possible change of call agent interfaces."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 5 }

::= { pktcSigEndPntConfigEntry 14 }

pktcSigEndPntConfigMax2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the disconnect error threshold for

signaling messages. The pktcSigEndPntConfigMax2 object indicates the retransmission threshold at which the MTA SHOULD contact the DNS one more time to see if any other interfaces to the call agent have become available."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 7 }

::= { pktcSigEndPntConfigEntry 15 }

pktcSigEndPntConfigMax1QEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object enables/disables the Max1 domain name server (DNS)

query operation when the pktcSigEndPntConfigMax1 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pktcSigEndPntConfigEntry 16 }

pktcSigEndPntConfigMax2QEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object enables/disables the Max2 domain name server (DNS) query operation when the pktcSigEndPntConfigMax2 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pktcSigEndPntConfigEntry 17 }

pktcSigEndPntConfigMWD OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Maximum Waiting Delay (MWD) contains the maximum number of seconds an MTA waits, after powering on, before initiating the restart procedure with the call agent."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 600 }

::= { pktcSigEndPntConfigEntry 18 }

pktcSigEndPntConfigTdinit OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object represents the 'disconnected' initial waiting delay within the context of an MTA's 'disconnected procedure'. The 'disconnected procedure' is initiated when an endpoint becomes 'disconnected' while attempting to communicate with a call agent.

The 'disconnected timer' associated with the 'disconnected Procedure' is initialized to a random value, uniformly distributed between zero and the value contained in this MIB object.

For more information on the usage of this timer, please refer to the PacketCable NCS Specification."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 15 }

::= { pktcSigEndPntConfigEntry 19 }

pktcSigEndPntConfigTadmin OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object represents the 'disconnected' minimum waiting delay within the context of an MTA's 'disconnected procedure', specifically when local user activity is detected.

The 'disconnected procedure' is initiated when an endpoint becomes 'disconnected' while attempting to communicate with a call agent.

For more information on the usage of this timer, please refer to the PacketCable NCS Specification."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 15 }

::= { pktcSigEndPntConfigEntry 20 }

pktcSigEndPntConfigTdmax OBJECT-TYPE  
SYNTAX Unsigned32

UNITS

"seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the maximum number of seconds the MTA  
waits, after a disconnect, before initiating the  
disconnected procedure with the call agent.  
"

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 600 }

::= { pktcSigEndPntConfigEntry 21 }

pktcSigEndPntConfigRtoMax OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies the maximum number of seconds the MTA  
waits for a response to an NCS message before initiating  
a retransmission."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 4 }

::= { pktcSigEndPntConfigEntry 22 }

pktcSigEndPntConfigRtoInit OBJECT-TYPE

SYNTAX Unsigned32

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the initial number of seconds for the  
retransmission timer."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 200 }

::= { pktcSigEndPntConfigEntry 23 }

pkcSigEndPntConfigLongDurationKeepAlive OBJECT-TYPE

SYNTAX Unsigned32

UNITS "minutes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" Specifies a time out value, in minutes, for sending long duration call notification messages."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 60 }

::= { pkcSigEndPntConfigEntry 24 }

pkcSigEndPntConfigThist OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" Time out period, in seconds, before no response is declared."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 30 }

::= { pkcSigEndPntConfigEntry 25 }

pkcSigEndPntConfigStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the Row Status associated with the pkcSigEndPntConfigTable. There are no restrictions or dependencies amidst the columnar objects before this row can be activated or for modifications of the columnar objects when this object is set to a value of 'active(1)."

::= { pkcSigEndPntConfigEntry 26 }

pkcSigEndPntConfigCallWaitingMaxRep OBJECT-TYPE

SYNTAX Unsigned32 (0..10)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default value of the maximum



number of repetitions of the Call Waiting tone that the MTA will play from a single CMS request. The MTA MUST NOT update this object with the information provided in the NCS message (if present). If the value of the object is modified by the SNMP

Manager application, the MTA MUST use the new value as a default only for a new signal requested by the NCS message."

DEFVAL { 1 }

::= { pktcSigEndPntConfigEntry 27 }

pktcSigEndPntConfigCallWaitingDelay OBJECT-TYPE

SYNTAX Unsigned32 (1..100)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the delay between repetitions of the Call Waiting tone that the MTA will play from a single CMS request."

DEFVAL { 10 }

::= { pktcSigEndPntConfigEntry 28 }

pktcSigEndPntStatusCallIpAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the type of Internet address contained in the MIB object 'pktcSigEndPntStatusCallIpAddress'.

Since pktcSigEndPntStatusCallIpAddress is expected to contain an IP address, a value of dns(16) is disallowed."

::= { pktcSigEndPntConfigEntry 29 }

pktcSigEndPntStatusCallIpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This MIB object contains the chosen IP address of the CMS currently being used for the corresponding endpoint.

The device determines the IP address by using DNS to resolve the IP address of the CMS from the FQDN stored in the MIB object 'pktcSigEndPntConfigCallAgentId'. The processes are outlined in the PacketCable NCS and Security specifications, and MUST be followed by the MTA.

The IP address type contained in this MIB object is indicated by pktcSigEndPntStatusCallIpAddressType."

#### REFERENCE

"PacketCable NCS Specification;  
PacketCable Security specification, [PKT-SP-SEC]."

::= { pktcSigEndPntConfigEntry 30 }

#### pktcSigEndPntStatusError OBJECT-TYPE

SYNTAX INTEGER {

operational

(1),

noSecurityAssociation (2),

disconnected (3)

}

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object contains the error status for this interface.

The operational status indicates that all operations necessary to put the line in service have occurred, and the CMS has acknowledged the Restart In Progress (RSIP) message successfully. If pktcMtaDevCmsIpsecCtrl is enabled for the associated call agent, the noSecurityAssociation status indicates that no Security Association (SA) yet exists for this endpoint. If pktcMtaDevCmsIpsecCtrl is disabled for the associated call agent, the noSecurityAssociation status is not applicable and should not be used by the MTA. The disconnected status indicates one of the following two:

If pktcMtaDevCmsIpsecCtrl is disabled, then no security association

is involved with this endpoint. The NCS

signaling software is in process of establishing the NCS signaling link via an RSIP exchange.

Otherwise, when pktcMtaDevCmsIpsecCtrl is enabled, security Association has been established, and the NCS signaling software is in process of establishing the NCS signaling link via an RSIP exchange."

::= { pktcSigEndPntConfigEntry 31 }

pktcSigEndPntConfigMinHookFlash OBJECT-TYPE  
SYNTAX Unsigned32 (20..1550)  
UNITS "Milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
" This is the minimum time a line needs to be on-hook for a  
valid hook flash. The value of this object MUST be  
greater than the value of  
pktcSigEndPntConfigPulseDialMaxBreakTime. The value of  
pktcSigEndPntConfigMinHookFlash MUST be less than  
pktcSigEndPntConfigMaxHookFlash. This object MUST only be  
set via the  
MTA configuration during the provisioning  
process.  
Furthermore, given the possibility for the 'pulse dial'  
and 'hook flash' to overlap, the value of this object  
MUST be greater than the value contained by the MIB  
Object 'pktcSigEndPntConfigPulseDialMaxMakeTime'. "  
DEFVAL { 300 }  
 ::= { pktcSigEndPntConfigEntry 32 }

pktcSigEndPntConfigMaxHookFlash OBJECT-TYPE  
SYNTAX Unsigned32 (20..1550)  
UNITS "Milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
" This is the maximum time a line needs to be on-hook for a  
valid hook flash. The value of  
pktcSigEndPntConfigMaxHookFlash MUST be greater than  
pktcSigEndPntConfigMinHookFlash. This object MUST only be  
set via the MTA configuration during the provisioning  
process."  
DEFVAL { 800 }  
 ::= { pktcSigEndPntConfigEntry 33 }

pktcSigEndPntConfigPulseDialInterdigitTime  
OBJECT-TYPE  
SYNTAX Unsigned32 (100..1500)  
UNITS "Milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

" This is the pulse dial inter-digit time out. This object MUST only be set via the MTA configuration during the provisioning process."

DEFVAL { 100 }

::= { pktcSigEndPntConfigEntry 34 }

pktcSigEndPntConfigPulseDialMinMakeTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the minimum make pulse width for the dial pulse. The value of pktcSigEndPntConfigPulseDialMinMakeTime MUST be less than pktcSigEndPntConfigPulseDialMaxMakeTime. This object MUST only be set via the MTA configuration during the provisioning process."

DEFVAL { 25 }

::= { pktcSigEndPntConfigEntry 35 }

pktcSigEndPntConfigPulseDialMaxMakeTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the maximum make pulse width for the dial pulse.

The value of pktcSigEndPntConfigPulseDialMaxMakeTime MUST be greater than pktcSigEndPntConfigPulseDialMinMakeTime.

This object MUST only be provided via the configuration file during the provisioning process.

Furthermore, given the possibility for the 'pulse dial' and 'hook flash' to overlap, the value of this object MUST be less than the value contained by the MIB object pktcSigEndPntConfigMinHookFlash."

DEFVAL { 55 }

::= { pktcSigEndPntConfigEntry 36 }

pktcSigEndPntConfigPulseDialMinBreakTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the minimum break pulse width

for the dial pulse.

The value of `pktcSigEndPntConfigPulseDialMinBreakTime` MUST be less than `pktcSigEndPntConfigPulseDialMaxBreakTime`.

This object must only be provided via the configuration file during the provisioning process."

DEFVAL { 45 }

::= { `pktcSigEndPntConfigEntry` 37 }

`pktcSigEndPntConfigPulseDialMaxBreakTime` OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the maximum break pulse width for the dial pulse.

The value of `pktcSigEndPntConfigPulseDialMaxBreakTime` MUST be greater than `pktcSigEndPntConfigPulseDialMinBreakTime`.

This object MUST only be provided via the configuration file during the provisioning process."

DEFVAL { 75 }

::= { `pktcSigEndPntConfigEntry` 38 }

--

-- notification group is for future extension.

--

`pktcSigNotification` OBJECT IDENTIFIER ::= {

`pktcIetfSigMib` 0 }

`pktcSigConformance` OBJECT IDENTIFIER ::= { `pktcIetfSigMib` 2 }

`pktcSigCompliances` OBJECT IDENTIFIER ::= { `pktcSigConformance` 1 }

`pktcSigGroups` OBJECT IDENTIFIER ::= { `pktcSigConformance` 2 }

--

-- compliance statements

--

`pktcSigBasicCompliance` MODULE-COMPLIANCE

STATUS current

DESCRIPTION

" The compliance statement for MTAs that implement NCS signaling."

MODULE -- `pktcIetfSigMib`

---

-- Unconditionally mandatory groups for all MTAs

---

```
MANDATORY-GROUPS {  
    pktcSigDeviceGroup,  
    pktcSigEndpointGroup  
}
```

---

-- Conditionally mandatory groups for MTAs

---

GROUP pktcInternationalGroup

DESCRIPTION

" This group is mandatory only for MTAs implementing international telephony features."

GROUP pktcLLinePackageGroup

DESCRIPTION

" This group is mandatory only for MTAs implementing the L line package."

GROUP pktcELinePackageGroup

DESCRIPTION

" This group is mandatory only for MTAs implementing the E Line Package."

::={ pktcSigCompliances 1 }

pktcSigDeviceGroup OBJECT-GROUP

OBJECTS {

pktcSigDevCodecMax,  
pktcSigDevEchoCancellation,  
pktcSigDevSilenceSuppression,  
pktcSigDevR0Cadence,  
pktcSigDevR1Cadence,  
pktcSigDevR2Cadence,  
pktcSigDevR3Cadence,

pktcSigDevR4Cadence,  
pktcSigDevR5Cadence,  
pktcSigDevR6Cadence,  
pktcSigDevR7Cadence,  
pktcSigDevRgCadence,  
pktcSigDevRsCadence,  
pktcSigDefCallSigDscp,  
pktcSigDefMediaStreamDscp,  
pktcSigDevVmwiMode,

```
pkteSigCapabilityType,  
pkteSigCapabilityVersion,  
pkteSigCapabilityVendorExt,  
pkteSigDefNcsReceiveUdpPort  
}
```

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration  
information that is applicable per-device."

```
::= { pkteSigGroups 1 }
```

pkteSigEndpointGroup OBJECT-GROUP

OBJECTS {

```
pkteSigEndPntConfigCallAgentId,  
pkteSigEndPntConfigCallAgentUdpPort,
```

```
pkteSigEndPntConfigPartialDialTO,  
pkteSigEndPntConfigCriticalDialTO,  
pkteSigEndPntConfigBusyToneTO,  
pkteSigEndPntConfigDialToneTO,  
pkteSigEndPntConfigMessageWaitingTO,  
pkteSigEndPntConfigOffHookWarnToneTO,  
pkteSigEndPntConfigRingingTO,  
pkteSigEndPntConfigRingBackTO,  
pkteSigEndPntConfigReorderToneTO,  
pkteSigEndPntConfigStutterDialToneTO,  
pkteSigEndPntConfigTSMMax,  
pkteSigEndPntConfigMax1,  
pkteSigEndPntConfigMax2,  
pkteSigEndPntConfigMax1QEnable,  
pkteSigEndPntConfigMax2QEnable,  
pkteSigEndPntConfigMWD,  
pkteSigEndPntConfigTdinit,  
pkteSigEndPntConfigTdmin,  
pkteSigEndPntConfigTdmax,  
pkteSigEndPntConfigRtoMax,  
pkteSigEndPntConfigRtoInit,  
pkteSigEndPntConfigLongDurationKeepAlive,  
pkteSigEndPntConfigThist,  
pkteSigEndPntConfigStatus,
```

```
pkteSigEndPntConfigCallWaitingMaxRep,  
pkteSigEndPntConfigCallWaitingDelay,  
pkteSigEndPntStatusCallIpAddressType,  
pkteSigEndPntStatusCallIpAddress,  
pkteSigEndPntStatusError
```

```
}
STATUS current
DESCRIPTION
    "Group of MIB objects containing signaling configuration
    information that is applicable per-endpoint."
::= { pktcSigGroups 2 }
```

pktcInternationalGroup OBJECT-GROUP

```
OBJECTS {
    pktcSigEndPntConfigMinHookFlash,
    pktcSigEndPntConfigMaxHookFlash,
    pktcSigEndPntConfigPulseDialInterdigitTime,
    pktcSigEndPntConfigPulseDialMinMakeTime,
    pktcSigEndPntConfigPulseDialMaxMakeTime,
    pktcSigEndPntConfigPulseDialMinBreakTime,
    pktcSigEndPntConfigPulseDialMaxBreakTime,
    pktcSigDevRingCadence,
    pktcSigDevCidSigProtocol,
    pktcSigDevCidDelayAfterLR,
    pktcSigDevCidDtmfStartCode,
    pktcSigDevCidDtmfEndCode,
    pktcSigDevVmwiSigProtocol,
    pktcSigDevVmwiDelayAfterLR,
    pktcSigDevVmwiDtmfStartCode,
    pktcSigDevVmwiDtmfEndCode,
    pktcSigDevvpAsDtsDuration,
    pktcSigDevCidMode,
    pktcSigDevCidAfterRing,
    pktcSigDevCidAfterDTAS,
    pktcSigDevCidAfterRPAS,
    pktcSigDevRingAfterCID,
    pktcSigDevCidDTASAfterLR,
    pktcSigDevVmwiMode,
    pktcSigDevVmwiAfterDTAS,
    pktcSigDevVmwiAfterRPAS,
    pktcSigDevVmwiDTASAfterLR,
    pktcSigPowerRingFrequency,
    pktcSigPulseSignalFrequency,
    pktcSigPulseSignalDbLevel,
    pktcSigPulseSignalDuration,
    pktcSigPulseSignalPulseInterval,
    pktcSigPulseSignalRepeatCount,
    pktcSigDevToneDbLevel,
```

```
    pktcSigDevToneFreqCounter,
    pktcSigDevToneWholeToneRepeatCount,
```



```
pktcSigDevToneSteady,  
pktcSigDevToneFirstFreqValue,  
pktcSigDevToneSecondFreqValue,  
pktcSigDevToneThirdFreqValue,  
pktcSigDevToneFourthFreqValue,  
pktcSigDevToneFreqMode,  
pktcSigDevToneFreqAmpModePrtg,  
pktcSigDevToneFreqOnDuration,  
pktcSigDevToneFreqOffDuration,  
pktcSigDevToneFreqRepeatCount  
}
```

STATUS current

DESCRIPTION

" Group of objects that extend the behavior of existing objects to support operations in the widest possible set of international marketplaces.

Note that many of these

objects represent a superset of behaviors described in other objects within this MIB module."

```
::= { pktcSigGroups 3 }
```

pktcLLinePackageGroup OBJECT-GROUP

OBJECTS {

```
pktcSigDevR0Cadence,  
pktcSigDevR1Cadence,  
pktcSigDevR2Cadence,  
pktcSigDevR3Cadence,  
pktcSigDevR4Cadence,  
pktcSigDevR5Cadence,  
pktcSigDevR6Cadence,  
pktcSigDevR7Cadence,  
pktcSigDevRgCadence,  
pktcSigDevRsCadence  
}
```

STATUS current

DESCRIPTION

"Group of Objects to support the L line package."

```
::= { pktcSigGroups 4 }
```

pktcELinePackageGroup OBJECT-GROUP

OBJECTS {

```
pktcSigDevR0Cadence,  
pktcSigDevR1Cadence,  
pktcSigDevR2Cadence,  
pktcSigDevR3Cadence,  
pktcSigDevR4Cadence,  
pktcSigDevR5Cadence,
```

```
pktcSigDevR6Cadence,
pktcSigDevR7Cadence,
pktcSigDevRgCadence,
pktcSigDevRsCadence,
pktcSigPulseSignalFrequency,
pktcSigPulseSignalDbLevel,
pktcSigPulseSignalDuration,
pktcSigPulseSignalPulseInterval,
pktcSigPulseSignalRepeatCount,
pktcSigDevRingCadence
}
STATUS current
DESCRIPTION
    "Group of Objects to support the E line package."
 ::= { pktcSigGroups 5 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-
SIG-MIB
```

No license file was found, but licenses were detected in source scan.

DOCS-IF-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY,
OBJECT-TYPE,
Unsigned32,
Integer32,
Counter32,
Counter64,
TimeTicks,
IpAddress,
transmission
    FROM SNMPv2-SMI    -- [RFC2578]
TEXTUAL-CONVENTION,
MacAddress,
RowStatus,
TruthValue,
TimeInterval,
TimeStamp,
StorageType
    FROM SNMPv2-TC    -- [RFC2579]
OBJECT-GROUP,
```

MODULE-COMPLIANCE  
FROM SNMPv2-CONF -- [RFC2580]  
ifIndex, InterfaceIndexOrZero  
FROM IF-MIB -- [RFC2863]  
InetAddressType,  
InetAddress  
FROM INET-ADDRESS-MIB -- [RFC4001]  
IANAifType  
FROM IANAifType-MIB; -- [IANA]

docsIfMib MODULE-IDENTITY

LAST-UPDATED "200605240000Z" -- May 24, 2006  
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DESCRIPTION

"This is the MIB Module for DOCSIS 2.0-compliant Radio

Frequency (RF) interfaces in Cable Modems and  
Cable Modem Termination Systems.

Copyright (C) The Internet Society (2006). This  
version of this MIB module is part of RFC 4546; see

the RFC itself for full legal notices."

REVISION "200605240000Z"

DESCRIPTION

"Revision of the IETF RF MIB module for DOCSIS 2.0.

This version published as RFC 4546.

This MIB module revision includes the following among others:

Usage of ifType (205) for upstream logical channels.

Addition of downstream and upstream utilization counters.

Additional statistics per upstream interface.

Upstream channel offline configuration mechanism.

Added MIB support for new DOCSIS 2.0 modulation attributes.

Euro-DOCSIS downstream interleave values.

Adjustments to RFC 2670 definitions based on the MIB review guidelines from the IETF

Operations and Management Area (OPS)."

REVISION "199908190000Z"

DESCRIPTION

"Initial version, published as RFC 2670.

Modified by Mike St. Johns to fix problems identified by the first pass of the MIB doctor. Of special note, docsIfRangingResp and docsIfCmtsInsertionInterval were obsoleted and replaced by other objects with the same functionality, but with more appropriate syntax."

::= { transmission 127 }

-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally expressed in dBmV. Units are in tenths of a dBmV; for example, 5.1 dBmV will be represented as 51."

SYNTAX Integer32

TenthdB ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally

expressed in dB. Units are in tenths of a dB; for example, 5.1 dB will be represented as 51."

SYNTAX Integer32

DocsisVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Radio Frequency specification being referenced.

'docsis10' indicates DOCSIS 1.0.

'docsis11' indicates DOCSIS 1.1.

'docsis20' indicates DOCSIS 2.0."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2),

docsis20 (3)

}

DocsisQosVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the referenced quality-of-service level.

'docsis10' refers to DOCSIS 1.0 Class of

Service queuing services, and 'docsis11' refers to DOCSIS 1.1 Quality of Service."

SYNTAX INTEGER {

docsis10 (1),

docsis11 (2)

}

DocsisUpstreamType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Upstream Channel Type.

'unknown' means information not available.

'tdma' is related to TDMA, Time Division

Multiple Access; 'atdma' is related to A-TDMA, Advanced Time Division Multiple Access,

'scdma' is related to S-CDMA, Synchronous

Code Division Multiple Access.

'tdmaAndAtdma' is related to simultaneous support of

TDMA and A-TDMA modes."

```

SYNTAX      INTEGER {
    unknown(0),
    tdma(1),
    atdma(2),
    scdma(3),
    tdmaAndAtdma(4)
}

```

DocsEqualizerData ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type represents the equalizer data as measured at the receiver interface.

The format of the equalizer follows the structure of the Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI v2.0 :

1 byte Main tap location 1..(n + m)  
1 byte Number of forward taps per symbol  
1 byte Number of forward taps: n  
1 byte Number of reverse taps: m

Following are the equalizer coefficients:

First, forward taps coefficients:

2 bytes F1 (real), 2 bytes F1 (imag)

...

2 bytes Fn (real), 2 bytes Fn (imag)

Then, reverse taps coefficients:

2 bytes D1 (real), 2 bytes D1 (imag)

...

2 bytes Dm (real), 2 bytes Dm (imag)

The equalizer coefficients are considered signed 16-bit integers in the range from -32768 (0x8000) to 32767 (0x7FFF).

DOCSIS specifications require up to a maximum of 64 equalizer taps (n + m); therefore, this object size can get up 260 bytes (4 + 4x64).

The minimum object size (other than zero) for a t-spaced tap with a minimum of 8 symbols will be 36 (4 + 4x8)."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 8-23."  
SYNTAX OCTET STRING(SIZE (0 | 36..260))

docsIfMibObjects OBJECT IDENTIFIER ::= { docsIfMib 1 }  
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }  
docsIfCmObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }  
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }

--  
-- BASE GROUP  
--  
--  
-- The following table is implemented on both the Cable Modem  
-- and the Cable Modem Termination System. This table is  
-- read only for the CM.  
--

docsIfDownstreamChannelTable OBJECT-TYPE  
SYNTAX SEQUENCE OF DocsIfDownstreamChannelEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This table describes the attributes of downstream  
channels (frequency bands)."  
REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface  
Specification SP-RFIV2.0-I10-051209,  
Tables 6-16, and 6-17."  
::= { docsIfBaseObjects 1 }

docsIfDownstreamChannelEntry OBJECT-TYPE  
SYNTAX DocsIfDownstreamChannelEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"An entry provides a list of attributes for a single  
downstream channel.  
An entry in this table exists for each ifEntry with an  
ifType of docsCableDownstream(128)."  
INDEX { ifIndex }

```
::= { docsIfDownstreamChannelTable 1 }
```

```
DocsIfDownstreamChannelEntry ::= SEQUENCE {  
    docsIfDownChannelId      Integer32,  
    docsIfDownChannelFrequency Integer32,  
    docsIfDownChannelWidth   Integer32,  
    docsIfDownChannelModulation INTEGER,  
    docsIfDownChannelInterleave INTEGER,  
    docsIfDownChannelPower   TenthdBmV,  
    docsIfDownChannelAnnex   INTEGER,  
    docsIfDownChannelStorageType  
    StorageType  
}
```

docsIfDownChannelId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Cable Modem Termination System identification of the downstream channel within this particular MAC interface. If the interface is down, the object returns the most current value. If the downstream channel ID is unknown, this object returns a value of 0."

```
::= { docsIfDownstreamChannelEntry 1 }
```

docsIfDownChannelFrequency OBJECT-TYPE

SYNTAX Integer32 (0..1000000000)

UNITS "hertz"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The center of the downstream frequency associated with this channel. This object will return the current tuner

frequency. If a CMTS provides IF output, this object will return 0, unless this CMTS is in control of the final downstream frequency. See

the associated

compliance object for a description of valid frequencies that may be written to this object."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 6.3.3."



::= { docsIfDownstreamChannelEntry 2 }

docsIfDownChannelWidth OBJECT-TYPE

SYNTAX Integer32 (0..16000000)

UNITS "hertz"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The bandwidth of this downstream channel. Most implementations are expected to support a channel width of 6 MHz (North America) and/or 8 MHz (Europe). See the associated compliance object for a description of the valid channel widths for this object."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 6-17."

::= { docsIfDownstreamChannelEntry 3 }

docsIfDownChannelModulation OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

other(2),

qam64(3),

qam256(4)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The modulation type associated with this downstream channel. If the interface is down, this object either returns the configured value (CMTS), the most current value (CM), or the value of unknown(1). See the associated conformance object for write conditions and limitations. See the reference for specifics on the modulation profiles implied by qam64 and qam256."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 6-17."

::= { docsIfDownstreamChannelEntry 4 }

docsIfDownChannelInterleave OBJECT-TYPE

SYNTAX INTEGER {

```

unknown(1),
other(2),
taps8Increment16(3),
taps16Increment8(4),
taps32Increment4(5),
taps64Increment2(6),
taps128Increment1(7),
taps12increment17(8)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION

```

"The Forward Error Correction (FEC) interleaving used for this downstream channel.

Values are defined as follows:

taps8Increment16(3): protection 5.9/4.1 usec,  
latency .22/.15 msec

taps16Increment8(4): protection 12/8.2 usec,  
latency .48/.33 msec

taps32Increment4(5): protection 24/16 usec,  
latency .98/.68 msec

taps64Increment2(6): protection 47/33 usec,  
latency 2/1.4 msec

taps128Increment1(7): protection 95/66 usec,  
latency 4/2.8 msec

taps12increment17(8):  
protection 18/14 usec,  
latency 0.43/0.32 msec

The value 'taps12increment17' is supported by EuroDOCSIS cable systems only, and the others by DOCSIS cable systems.

If the interface is down, this object either returns the configured value (CMTS), the most current value (CM), or the value of unknown(1).

The value of other(2) is returned if the interleave is known but not defined in the above list.

See the associated conformance object for write conditions and limitations. See the reference for the FEC configuration described by the setting of this object."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209,

Table 6-15."

```
::= { docsIfDownstreamChannelEntry 5 }
```

docsIfDownChannelPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS

"dBmV"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"At the CMTS, the operational transmit power. At the CM, the received power level.

If the interface is down, this object either returns the configured value (CMTS), the most current value (CM) or the value of 0. See the associated conformance object for write conditions and limitations. See the reference for recommended and required power levels."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-16, 6-17."

::= { docsIfDownstreamChannelEntry 6 }

docsIfDownChannelAnnex OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

other(2),

annexA(3),

annexB(4),

annexC(5)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object indicates the conformance of the implementation to important regional cable standards.

annexA : Annex A from ITU-T J.83 is used.

(equivalent to EN 300 429)

annexB : Annex B from ITU-T J.83 is used.

annexC : Annex C from ITU-T J.83 is used."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.3.1, and H.3.1."

::= { docsIfDownstreamChannelEntry 7 }

docsIfDownChannelStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The storage type for this conceptual row.  
Entries with this object set to permanent(4)  
do not require write operations for read-write  
objects."

::= { docsIfDownstreamChannelEntry 8 }

--

-- The following table is implemented on both the CM and the CMTS.

-- For the CM, only attached channels

appear in the table. For the

-- CM, this table is read-only as well.

--

docsIfUpstreamChannelTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfUpstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table describes the attributes of attached upstream  
channels."

::= { docsIfBaseObjects 2 }

docsIfUpstreamChannelEntry OBJECT-TYPE

SYNTAX DocsIfUpstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"List of attributes for a single upstream channel. For  
DOCSIS 2.0 CMTSs, an entry in this table exists for  
each ifEntry with an ifType of docsCableUpstreamChannel  
(205).

For DOCSIS 1.x CM/CMTSs and DOCSIS 2.0 CMs, an entry in  
this table exists for each ifEntry with an ifType of  
docsCableUpstream (129).

For DOCSIS 2.0 CMTSs, two classes of interfaces can be  
defined for this table:

- o Upstream Physical Interfaces: The traditional DOCSIS  
1.x CMTS upstream interface ifType 129 and the DOCSIS  
2.0 ifType 205 that are functional. In other words,  
interfaces that represent upstream receivers within  
an RF MAC interface.

Entries of physical interfaces are exposed to the

management interface with their corresponding ifStack hierarchy and are not administratively created by this table.

- o Upstream Temporary Interfaces: A fictitious interface created for the purpose of manipulating physical interface parameters offline, then validating prior to updating the target physical interface.

In case of a reinitialization of the managed system, physical interfaces values persist while the temporary interfaces are not recreated.

This mechanism helps to minimize service disruptions originating in situations where a group of interface parameter values need to be consistent with each other in SET operations. A temporary buffer (temporary interface) is provided to allow the CMTS to validate the parameters offline."

```
INDEX { ifIndex }  
::= { docsIfUpstreamChannelTable 1 }
```

```
DocsIfUpstreamChannelEntry ::= SEQUENCE {  
    docsIfUpChannelId          Integer32,  
    docsIfUpChannelFrequency   Integer32,  
    docsIfUpChannelWidth      Integer32,  
    docsIfUpChannelModulationProfile Unsigned32,  
    docsIfUpChannelSlotSize   Unsigned32,  
    docsIfUpChannelTxTimingOffset Unsigned32,  
    docsIfUpChannelRangingBackoffStart Integer32,  
    docsIfUpChannelRangingBackoffEnd Integer32,  
    docsIfUpChannelTxBackoffStart Integer32,  
    docsIfUpChannelTxBackoffEnd Integer32,  
  
    docsIfUpChannelScdmaActiveCodes Unsigned32,  
    docsIfUpChannelScdmaCodesPerSlot Integer32,  
    docsIfUpChannelScdmaFrameSize Unsigned32,  
    docsIfUpChannelScdmaHoppingSeed Unsigned32,  
    docsIfUpChannelType        DocsisUpstreamType,  
    docsIfUpChannelCloneFrom   InterfaceIndexOrZero,  
    docsIfUpChannelUpdate      TruthValue,  
    docsIfUpChannelStatus      RowStatus,  
    docsIfUpChannelPreEqEnable TruthValue
```

}

docsIfUpChannelId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CMTS identification of the upstream channel."

::= { docsIfUpstreamChannelEntry 1 }

docsIfUpChannelFrequency OBJECT-TYPE

SYNTAX Integer32 (0..1000000000)

UNITS "hertz"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The center of the frequency

band associated with this

upstream interface. This object returns 0 if the frequency is undefined or unknown. Minimum permitted upstream frequency is 5,000,000 Hz for current technology. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 4-2."

::= { docsIfUpstreamChannelEntry 2 }

docsIfUpChannelWidth OBJECT-TYPE

SYNTAX Integer32 (0..64000000)

UNITS "hertz"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The bandwidth of this upstream interface. This object returns 0 if the interface width is undefined or unknown.

Minimum permitted interface width is currently 200,000 Hz.

See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 6-5."

::= { docsIfUpstreamChannelEntry 3 }

docsIfUpChannelModulationProfile OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"An entry identical to the docsIfModIndex in the docsIfCmtsModulationTable that describes this channel. This channel is further instantiated there by a grouping of interval usage codes (IUCs) that, together, fully describe the channel modulation. This object returns 0 if the docsIfCmtsModulationTable entry does not exist or is empty. See the associated conformance object for write conditions and limitations.

Setting this object returns an 'inconsistentValue' error if the following conditions are not satisfied:

1. All the

IUC entries in the selected modulation profile

MUST have the same value of docsIfCmtsModChannelType.

2. All of the Modulation parameters in the selected modulation profile MUST be consistent with the other parameters in this docsIfUpstreamChannelEntry."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

::= { docsIfUpstreamChannelEntry 4 }

docsIfUpChannelSlotSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "ticks"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable to TDMA and ATDMA channel types only. The number of 6.25 microsecond ticks in each upstream mini-slot. Returns zero if the value is undefined or unknown or in case of an SCDMA channel. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.1.2.4."

::= { docsIfUpstreamChannelEntry 5 }

docsIfUpChannelTxTimingOffset OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At the CM, a measure of the current round trip time obtained from the ranging offset (initial ranging offset + ranging offset adjustments).

At the CMTS, the maximum of timing offset, among all the CMs that are/were present on the channel, taking into account all ( initial + periodic ) timing offset corrections that were sent for each of the CMs. Generally, these measurements are positive, but if the measurements are negative, the value of this object is zero. Used for timing of CM upstream transmissions to ensure synchronized

arrivals at the CMTS.

Units are one 64th fraction of 6.25 microseconds."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.19."

::= { docsIfUpstreamChannelEntry 6 }

docsIfUpChannelRangingBackoffStart OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The initial random backoff window to use when retrying Ranging Requests. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry  
7 }

docsIfUpChannelRangingBackoffEnd OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current



#### DESCRIPTION

"The final random backoff window to use when retrying Ranging Requests. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 8 }

#### docsIfUpChannelTxBackoffStart OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The initial random backoff window to use when retrying transmissions. Expressed as a power of 2. A value of 16

at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 9 }

#### docsIfUpChannelTxBackoffEnd OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The final random backoff window to use when retrying transmissions. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 10 }

docsIfUpChannelScdmaActiveCodes OBJECT-TYPE

SYNTAX Unsigned32 (0|64..66|68..70|72|74..78|80..82|84..88  
|90..96|98..100|102|104..106|108  
|110..112|114..126|128)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.  
Number of active codes. Returns zero for  
Non-SCDMA channel types. Note that legal  
values from 64..128 MUST be non-prime."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.11.2.1."

::= { docsIfUpstreamChannelEntry 11 }

docsIfUpChannelScdmaCodesPerSlot OBJECT-TYPE

SYNTAX Integer32(0 | 2..32)

UNITS "codesperMinislots"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.  
The number of SCDMA codes per mini-slot.  
Returns zero if the value is undefined or unknown or in

case of a TDMA or ATDMA channel."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.11.2.1."

::= { docsIfUpstreamChannelEntry 12 }

docsIfUpChannelScdmaFrameSize OBJECT-TYPE

SYNTAX Unsigned32 (0..32)

UNITS "spreadIntervals"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.  
SCDMA Frame size in units of spreading intervals.  
This value returns zero for non-SCDMA Profiles."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.12."

::= {  
docsIfUpstreamChannelEntry 13 }

docsIfUpChannelScdmaHoppingSeed OBJECT-TYPE

SYNTAX Unsigned32 (0..32767)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.  
15-bit seed used for code hopping sequence initialization.  
Returns zero for non-SCDMA channel types.  
Setting this value to a value different than zero for  
non-SCDMA channel types returns the error 'wrongValue'."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.14.1."

::= { docsIfUpstreamChannelEntry 14 }

docsIfUpChannelType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Reflects the Upstream channel type.  
This object returns the value of docsIfCmtsModChannelType  
for the modulation profile selected

in

docsIfUpChannelModulationProfile for this row."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.1."

::= { docsIfUpstreamChannelEntry 15 }

docsIfUpChannelCloneFrom OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the ifIndex value of the physical  
interface row entry whose parameters are to be adjusted.

Upon setting this object to the ifIndex value of a physical interface, the following interface objects values are copied to this entry:

docsIfUpChannelFrequency,  
docsIfUpChannelWidth,  
docsIfUpChannelModulationProfile,  
docsIfUpChannelSlotSize,  
docsIfUpChannelRangingBackoffStart,  
docsIfUpChannelRangingBackoffEnd,  
docsIfUpChannelTxBackoffStart,  
docsIfUpChannelTxBackoffEnd,  
docsIfUpChannelScdmaActiveCodes,  
docsIfUpChannelScdmaCodesPerSlot,  
docsIfUpChannelScdmaFrameSize,  
docsIfUpChannelScdmaHoppingSeed,  
docsIfUpChannelType, and  
docsIfUpChannelPreEqEnable

Setting this object to the value of a non-existent or a temporary upstream interface returns the error 'wrongValue'.

This object MUST contain a value of zero for physical interfaces entries.

Setting this object in row entries that correspond to physical interfaces returns the error 'wrongValue'."

```
::= { docsIfUpstreamChannelEntry 16 }
```

docsIfUpChannelUpdate OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Used to perform the copy of adjusted parameters from the temporary interface entry to the physical interface indicated by the docsIfUpChannelCloneFrom

object. The

transfer is initiated through an SNMP SET to 'true' of

this object.

A SET to 'true' fails and returns error 'commitFailed' if docsIfUpChannelStatus value is 'notInService', which means that the interface parameters values are not compatible with each other or have not been validated yet.

Reading this object always returns 'false'."

```
::= { docsIfUpstreamChannelEntry 17 }
```

docsIfUpChannelStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object is only used for the creation of a temporary upstream row with the purpose of updating the parameters of a physical upstream channel entry.

The following restrictions apply to this object:

1. This object is not writable for physical interfaces.
2. Temporary interface entries are only created by a SET

of this object to createAndWait(5).

3. ifAdminStatus from the Interface MIB RFC 2863 is used to take a physical upstream channel offline, to be consistent with DOCSIS 1.x operation, as indicated in RFC 2670.

In addition,

- o ifAdminStatus 'down' is reflected in this object as 'notInService'.
  - o ifOperStatus 'down' while ifAdminStatus 'up' is reflected in this object as 'notInService'.
4. Temporary created rows MUST be set to 'active' with the purpose of validating upstream parameter consistency prior to transferring the parameters to the physical interface.

Below is a mandatory procedure for adjusting the values of a physical interface:

1. Create a temporary interface entry through an SNMP SET using 'createAndWait'. At this point, the RowStatus reports 'notReady'.

The Manager entity uses an ifIndex value outside the operational range of the physical interfaces for the creation of a temporary interface.

2. Set the docsIfUpChannelCloneFrom object to the ifIndex value of the physical row to update. Now docsIfUpChannelStatus reports 'notInService'.
3. Change the upstream parameters to the desired values in the temporary row.

4. Validate that all parameters are consistent by setting docsIfUpChannelStatus to 'active'. A failure to set the RowStatus to 'active' returns the error 'commitFailed', which means the parameters are not compatible with the target physical interface.

5. With docsIfUpChannelStatus 'active', transfer the parameters to the target physical interface by setting the object docsIfUpChannelUpdate to 'true'.
6. Delete the temporary

row by setting

```
docsIfUpChannelStatus to 'destroy'."
::= { docsIfUpstreamChannelEntry 18 }
```

docsIfUpChannelPreEqEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"At the CMTS, this object is used to enable or disable pre-equalization on the upstream channel represented by this table instance. At the CM, this object is read-only and reflects the status of pre-equalization as represented in the RNG-RSP. Pre-equalization is considered enabled at the CM if a RNG-RSP with pre-equalization data has been received at least once since the last mac reinitialization."

DEFVAL {false}

```
::= { docsIfUpstreamChannelEntry 19 }
```

```
-- The following table describes the attributes of each class of
-- service. The entries in this table are referenced from the
-- docsIfServiceEntries. They exist as a separate table in order to
--
-- reduce redundant information in docsIfServiceTable.
```

```
-- This table is implemented at both the CM and the CMTS.
-- The CM need only maintain entries for the classes of service
-- referenced by its docsIfCmServiceTable.
```

docsIfQosProfileTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfQosProfileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes for each class of service."

```
::= { docsIfBaseObjects 3 }
```

docsIfQosProfileEntry OBJECT-TYPE

SYNTAX DocsIfQosProfileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes for a single class of service.

If implemented as read-create in the Cable Modem Termination System, creation of entries in this table is controlled by the value of docsIfCmtsQosProfilePermissions.

If implemented as read-only, entries are created based on information in REG-REQ

MAC messages received from

cable modems (for Cable Modem Termination System), or based on information extracted from the TFTP option file (for Cable Modem).

In the Cable Modem Termination System, read-only entries are removed if no longer referenced by docsIfCmtsServiceTable.

An entry in this table MUST not be removed while it is referenced by an entry in docsIfCmServiceTable (Cable Modem) or docsIfCmtsServiceTable (Cable Modem Termination System).

An entry in this table SHOULD NOT be changeable while it is referenced by an entry in docsIfCmtsServiceTable.

If this table is created automatically, there SHOULD only be a single entry for each Class of Service. Multiple entries with the same Class of Service parameters are NOT RECOMMENDED."

INDEX { docsIfQosProfIndex }

::= { docsIfQosProfileTable 1 }

DocsIfQosProfileEntry

::= SEQUENCE {

docsIfQosProfIndex Integer32,  
docsIfQosProfPriority Integer32,  
docsIfQosProfMaxUpBandwidth Integer32,  
docsIfQosProfGuarUpBandwidth Integer32,  
docsIfQosProfMaxDownBandwidth Integer32,  
docsIfQosProfMaxTxBurst Integer32, -- deprecated  
docsIfQosProfBaselinePrivacy TruthValue,  
docsIfQosProfStatus RowStatus,  
docsIfQosProfMaxTransmitBurst Integer32,  
docsIfQosProfStorageType StorageType  
}

docsIfQosProfIndex OBJECT-TYPE

SYNTAX Integer32 (1..16383)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index value that uniquely identifies an entry  
in the docsIfQosProfileTable."

::= { docsIfQosProfileEntry 1 }

docsIfQosProfPriority OBJECT-TYPE

SYNTAX Integer32 (0..7)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A relative priority assigned to this service when  
allocating bandwidth. Zero indicates lowest priority  
and seven indicates highest priority.

Interpretation of priority is device-specific.

MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 2 }

docsIfQosProfMaxUpBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum upstream bandwidth, in bits per second,  
allowed for a service with this service class.

Zero if there is no restriction of upstream bandwidth.

MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service  
Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 3 }



docsIfQosProfGuarUpBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Minimum guaranteed upstream bandwidth, in bits per second,

allowed for a service with this service class.

MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 4 }

docsIfQosProfMaxDownBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum downstream bandwidth,  
in bits per second,

allowed for a service with this service class.

Zero if there is no restriction of downstream bandwidth.

MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 5 }

docsIfQosProfMaxTxBurst OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "mini-slots"

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The maximum number of mini-slots that may be requested  
for a single upstream transmission.

A value of zero means there is no limit.

MUST NOT be changed while this row is active."

This object has been deprecated and replaced by docsIfQosProfMaxTransmitBurst, to fix a mismatch of the units and value range with respect to the DOCSIS

Maximum Upstream Channel Transmit Burst Configuration Setting."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 6 }

docsIfQosProfBaselinePrivacy OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether Baseline Privacy is enabled for this service class.

MUST NOT be changed while this row is active."

DEFVAL { false }

::= { docsIfQosProfileEntry 7 }

docsIfQosProfStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is object is used to create or delete rows in this table. This object MUST NOT be changed from active while the row is referenced by any entry in either docsIfCmServiceTable

(on the CM) or

docsIfCmtsServiceTable (on the CMTS)."

::= { docsIfQosProfileEntry 8 }

docsIfQosProfMaxTransmitBurst OBJECT-TYPE

SYNTAX Integer32 (0..65535)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of bytes that may be requested for a single upstream transmission. A value of zero means there is no limit. Note: This value does not include any

physical layer overhead.  
MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 9 }

docsIfQosProfStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The storage type for this conceptual  
row.

Entries with this object set to permanent(4)

do not require write operations for writable  
objects."

::= { docsIfQosProfileEntry 10 }

docsIfSignalQualityTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfSignalQualityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"At the CM, describes the PHY signal quality of downstream  
channels. At the CMTS, this object describes the PHY  
signal quality of upstream channels. At the CMTS, this  
table MAY exclude contention intervals."

::= { docsIfBaseObjects 4 }

docsIfSignalQualityEntry OBJECT-TYPE

SYNTAX DocsIfSignalQualityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"At the CM, this object describes the PHY characteristics of  
a downstream channel. At the CMTS, it describes the PHY  
signal quality of an upstream channel.

An entry in this table exists

for each ifEntry with an

ifType of docsCableDownstream(128) for Cable Modems.

For DOCSIS 1.1 Cable Modem Termination Systems, an entry

exists for each ifEntry with an ifType of

docsCableUpstream (129).

For DOCSIS 2.0 Cable Modem Termination Systems, an entry exists for each ifEntry with an ifType of docsCableUpstreamChannel (205)."

INDEX { ifIndex }

::= { docsIfSignalQualityTable 1 }

```
DocsIfSignalQualityEntry ::= SEQUENCE {
    docsIfSigQIncludesContention TruthValue,
    docsIfSigQUnerroreds Counter32,
    docsIfSigQCorrecteds Counter32,
    docsIfSigQUncorrectables Counter32,
    docsIfSigQSignalNoise TenthdB,
    docsIfSigQMicrorreflections Integer32,
    docsIfSigQEqualizationData DocsEqualizerData,
    docsIfSigQExtUnerroreds Counter64,
    docsIfSigQExtCorrecteds Counter64,
    docsIfSigQExtUncorrectables
Counter64
}
```

docsIfSigQIncludesContention OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"true(1) if this CMTS includes contention intervals in the counters in this table. Always false(2) for CMs."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4.1"

::= { docsIfSignalQualityEntry 1 }

docsIfSigQUnerroreds OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel without error.

This includes all codewords, whether or not they were part of frames destined for this device.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated  
by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Sections 6.2.4, and 6.3.6."  
::= { docsIfSignalQualityEntry 2 }

docsIfSigQCorrecteds OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel with correctable  
errors. This includes all codewords, whether or not  
they were part of frames destined for this device.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency  
Interface Specification SP-RFIV2.0-I10-051209,  
Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 3 }

docsIfSigQUncorrectables OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel with uncorrectable  
errors. This includes all codewords, whether or not  
they were part of frames destined for this device.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,

Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 4 }

docsIfSigQSignalNoise OBJECT-TYPE

SYNTAX TenthdB

UNITS "TenthdB"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Signal/Noise ratio as perceived for this channel.

At the CM, this object describes the Signal/Noise of the downstream channel. At the CMTS, it describes the average Signal/Noise of the upstream channel."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 4-1 and 4-2"

::= { docsIfSignalQualityEntry 5 }

docsIfSigQMicroreflections OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "-dBc"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Microreflections, including in-channel response as perceived on this interface, measured in dBc below the signal level.

This object is not assumed to return an absolutely accurate value, but it gives a rough indication

of microreflections received on this interface.

It is up to the implementer to provide information as accurately as possible."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 4-1 and 4-2"

::= { docsIfSignalQualityEntry 6 }

docsIfSigQEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At the CM, this object returns the equalization data for

the downstream channel.

At the CMTS, this object is not applicable and is not instantiated. Note that previous CMTS implementations may instantiate this object in two ways:

- An equalization value indicating an equalization average for the upstream channel. Those values have vendor-dependent

interpretations.

- Return a zero-length OCTET STRING to indicate that the value is unknown or if there is no equalization data available or defined."

#### REFERENCE

"DOCSIS Radio Frequency Interface Specification, Figure 6-23."

::= { docsIfSignalQualityEntry 7 }

#### docsIfSigQExtUnerroreds OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received on this channel without error.

This includes all codewords, whether or not they were part of frames destined for this device.

This is the 64-bit version of docsIfSigQUnerroreds.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 8 }

#### docsIfSigQExtCorrecteds OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received on this channel with correctable

errors. This includes all codewords, whether or not they were part of frames destined for this device. This is the 64-bit version of docsIfSigQCorrecteds. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 9 }

docsIfSigQExtUncorrectables OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel with uncorrectable errors. This includes all codewords, whether or not they were part of frames destined for this device. This is the 64-bit version of docsIfSigQUncorrectables. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, 6.3.6."

::= { docsIfSignalQualityEntry 10 }

--  
-- DOCSIS Version of  
the device  
--

docsIfDocsisBaseCapability OBJECT-TYPE

SYNTAX DocsisVersion

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indication of the DOCSIS capability of the device."

REFERENCE



"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex G."

::= { docsIfBaseObjects 5 }

--

-- CABLE MODEM GROUP

--

--

-- The CM MAC Table

--

docsIfCmMacTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of each CM MAC interface,  
extending the information available from ifEntry."

::= { docsIfCmObjects 1 }

docsIfCmMacEntry OBJECT-TYPE

SYNTAX DocsIfCmMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing objects describing attributes  
of  
each MAC entry, extending the information in ifEntry.  
An entry in this table exists for each ifEntry with an  
ifType of docsCableMaclayer(127)."

INDEX { ifIndex }

::= { docsIfCmMacTable 1 }

DocsIfCmMacEntry ::= SEQUENCE {

docsIfCmCmtsAddress MacAddress,

docsIfCmCapabilities BITS,

docsIfCmRangingRespTimeout TimeTicks,

docsIfCmRangingTimeout TimeInterval

}

docsIfCmCmtsAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies the CMTS that is believed to control this MAC domain. At the CM, this will be the source address from SYNC, MAP, and other MAC-layer messages. If the CMTS is unknown, returns 00-00-00-00-00-00."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.2.2."

::= { docsIfCmMacEntry 1 }

docsIfCmCapabilities OBJECT-TYPE

SYNTAX BITS {

atmCells(0),

concatenation(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies the capabilities of the MAC implementation at this interface. Note that packet transmission is always supported. Therefore, there is no specific bit required to explicitly indicate this capability.

Note that BITS objects are encoded most significant bit first. For example, if bit 1 is set, the value of this object is the octet string '40'H."

::= { docsIfCmMacEntry 2 }

docsIfCmRangingRespTimeout OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-write

STATUS obsolete

DESCRIPTION

"Waiting time for a Ranging Response packet.

This object has been obsoleted and replaced by docsIfCmRangingTimeout to correct

the typing to

TimeInterval."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.1.6."

DEFVAL { 20 }

::= { docsIfCmMacEntry 3 }

docsIfCmRangingTimeout OBJECT-TYPE

SYNTAX TimeInterval

UNITS "HundredOfSeconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Waiting time for a Ranging Response packet.

This object MUST NOT persist at reinitialization  
of the managed system."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.1.6, timer T3."

DEFVAL { 20 }

::= { docsIfCmMacEntry 4 }

--

-- CM status table.

-- This table is implemented only at the CM.

--

docsIfCmStatusTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table maintains a number of status objects  
and counters for Cable Modems."

::= { docsIfCmObjects 2 }

docsIfCmStatusEntry OBJECT-TYPE

SYNTAX DocsIfCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of status objects and counters for a single MAC  
layer instance in Cable Modem.

An entry in this table exists for each ifEntry with an  
ifType of docsCableMaLayer(127)."

INDEX { ifIndex }

::= { docsIfCmStatusTable 1 }

DocsIfCmStatusEntry ::= SEQUENCE {

docsIfCmStatusValue INTEGER,

docsIfCmStatusCode OCTET STRING,

docsIfCmStatusTxPower TenthdBmV,

docsIfCmStatusResets Counter32,

```

docsIfCmStatusLostSyncs      Counter32,

docsIfCmStatusInvalidMaps    Counter32,
docsIfCmStatusInvalidUcds
Counter32,
docsIfCmStatusInvalidRangingResponses Counter32,
docsIfCmStatusInvalidRegistrationResponses Counter32,
docsIfCmStatusT1Timeouts    Counter32,
docsIfCmStatusT2Timeouts    Counter32,
docsIfCmStatusT3Timeouts    Counter32,
docsIfCmStatusT4Timeouts    Counter32,
docsIfCmStatusRangingAborted Counter32,
docsIfCmStatusDocsisOperMode DocsisQosVersion,
docsIfCmStatusModulationType DocsisUpstreamType,
docsIfCmStatusEqualizationData DocsEqualizerData,
docsIfCmStatusUCCs          Counter32,
docsIfCmStatusUCCFails      Counter32
}

```

#### docsIfCmStatusValue OBJECT-TYPE

```

SYNTAX  INTEGER {
    other(1),
    notReady(2),
    notSynchronized(3),
    phySynchronized(4),
    usParametersAcquired(5),
    rangingComplete(6),
    ipComplete(7),
    todEstablished(8),
    securityEstablished(9),
    paramTransferComplete(10),
    registrationComplete(11),
    operational(12),
    accessDenied(13)
}

```

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current Cable Modem connectivity state, as specified in the RF Interface Specification. Interpretations for state values 1-12 are clearly outlined in the SP-RFI reference given below.

The state value accessDenied(13) indicates the CMTS has sent a Registration Aborted message to the CM. The same state is reported as accessDenied(7) by the CMTS object docsIfCmtsCmStatusValue."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 11.2.  
Data-Over-Cable Service Interface Specifications:

Operations Support System Interface Specification  
SP-OSSIV2.0-I09-050812,  
Section 6.3.4.2."  
::= { docsIfCmStatusEntry 1 }

## docsIfCmStatusCode OBJECT-TYPE

SYNTAX OCTET STRING (SIZE( 0 | 5 | 6 ))

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"Status code for a Cable Modem as defined in the  
OSSI Specification. The status code consists  
of a single character indicating error groups, followed  
by a two- or three-digit number indicating the status  
condition, followed by a decimal.  
An example of a returned value could be 'T101.0'.  
The zero-length OCTET STRING indicates no status code yet  
registered."

## REFERENCE

"Data-Over-Cable Service Interface Specifications:  
Operations Support System Interface Specification  
SP-OSSIV2.0-I09-050812, Annex D."  
::= { docsIfCmStatusEntry 2 }

## docsIfCmStatusTxPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS "TenthdBmV"

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"The operational transmit power for the attached upstream  
channel."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.18."  
::= { docsIfCmStatusEntry 3 }

## docsIfCmStatusResets OBJECT-TYPE

SYNTAX Counter32  
UNITS "resets"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Number of times the CM reset or initialized this interface.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmStatusEntry 4 }

docsIfCmStatusLostSyncs OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Number of times the CM lost synchronization with the downstream channel.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.2."

::= { docsIfCmStatusEntry 5 }

docsIfCmStatusInvalidMaps OBJECT-TYPE

SYNTAX Counter32  
UNITS "maps"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Number of times the CM received invalid MAP messages.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.4."  
::= { docsIfCmStatusEntry 6 }

docsIfCmStatusInvalidUcds OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid UCD messages.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.3."

::= { docsIfCmStatusEntry 7 }

docsIfCmStatusInvalidRangingResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid ranging response  
messages.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.6."

::= { docsIfCmStatusEntry 8 }

docsIfCmStatusInvalidRegistrationResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Number of times the CM received invalid registration response messages.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as

indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.8."

::= { docsIfCmStatusEntry 9 }

#### docsIfCmStatusT1Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Number of times counter T1 expired in the CM.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 9-2."

::= { docsIfCmStatusEntry 10 }

#### docsIfCmStatusT2Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Number of times counter T2 expired in the CM.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209,



Figure 9-2."

```
::= { docsIfCmStatusEntry 11 }
```

docsIfCmStatusT3Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times counter T3 expired in the CM.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times

as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 9-2."

```
::= { docsIfCmStatusEntry 12 }
```

docsIfCmStatusT4Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times counter T4 expired in the CM.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 9-2."

```
::= { docsIfCmStatusEntry 13 }
```

docsIfCmStatusRangingAborted

OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the ranging process was aborted by the CMTS.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.3.3."

::= { docsIfCmStatusEntry 14 }

docsIfCmStatusDocsisOperMode OBJECT-TYPE

SYNTAX DocsisQosVersion

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indication of whether the device has registered using 1.0 Class of Service or 1.1 Quality of Service.

An unregistered CM SHOULD indicate 'docsis11'

for a

docsIfDocsisBaseCapability value of DOCSIS 1.1/2.0. An unregistered CM SHOULD indicate 'docsis10' for a docsIfDocsisBaseCapability value of DOCSIS 1.0."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex G."

::= { docsIfCmStatusEntry 15 }

docsIfCmStatusModulationType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates modulation type status currently used by the CM. Since this object specifically identifies PHY mode, the shared upstream channel type is not permitted."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.1."

::= { docsIfCmStatusEntry 16 }

docsIfCmStatusEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Pre-equalization data for this CM after convolution with data indicated in the RNG-RSP. This data is valid when docsIfUpChannelPreEqEnable is set to true."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 8-23."

::= { docsIfCmStatusEntry 17 }

docsIfCmStatusUCCs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful Upstream Channel Change transactions.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmStatusEntry 18 }

docsIfCmStatusUCCFails OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of failed Upstream Channel Change transactions.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmStatusEntry 19 }

--

-- The Cable Modem Service Table

--

docsIfCmServiceTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmServiceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of each upstream service queue on a CM."

::= { docsIfCmObjects 3 }

docsIfCmServiceEntry OBJECT-TYPE

SYNTAX DocsIfCmServiceEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"Describes the attributes of an upstream bandwidth service queue.

An entry in this table exists for each Service ID.

The primary index is an ifIndex with an ifType of docsCableMaclayer(127)."

INDEX { ifIndex, docsIfCmServiceId }

::= { docsIfCmServiceTable 1 }

DocsIfCmServiceEntry ::= SEQUENCE {

docsIfCmServiceId Integer32,  
docsIfCmServiceQosProfile Integer32,  
docsIfCmServiceTxSlotsImmed Counter32,  
docsIfCmServiceTxSlotsDed Counter32,  
docsIfCmServiceTxRetries Counter32,  
docsIfCmServiceTxExceededs Counter32,  
docsIfCmServiceRqRetries Counter32,  
docsIfCmServiceRqExceededs Counter32,  
docsIfCmServiceExtTxSlotsImmed Counter64,  
docsIfCmServiceExtTxSlotsDed Counter64

}

docsIfCmServiceId OBJECT-TYPE

SYNTAX Integer32 (1..16383)

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"Identifies a service queue for upstream bandwidth. The attributes of this service queue are shared between the

CM and the CMTS. The CMTS allocates upstream bandwidth to this service queue based on requests from the CM and on the class of service associated with this queue."

::= { docsIfCmServiceEntry 1 }

docsIfCmServiceQosProfile OBJECT-TYPE

SYNTAX Integer32 (0..16383)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index in docsIfQosProfileTable describing the quality of service attributes associated with this particular service. If no associated entry in docsIfQosProfileTable exists, this object returns a value of zero."

::= { docsIfCmServiceEntry 2 }

docsIfCmServiceTxSlotsImmed OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in immediate (contention) mode. This includes only those PDUs that are presumed to have arrived at the head-end (i.e., those that were explicitly acknowledged). It does not include retransmission attempts or mini-slots used by requests.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 3 }

docsIfCmServiceTxSlotsDed OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

#### DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in dedicated mode (i.e., as a result of a unicast Data Grant).

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 4 }

#### docsIfCmServiceTxRetries OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of attempts to transmit data PDUs containing requests for acknowledgment that did not result in acknowledgment.

Discontinuities in the value of

this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 5 }

#### docsIfCmServiceTxExceededs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of data PDU transmission failures due to excessive retries without acknowledgment.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications:

Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.4."

::= { docsIfCmServiceEntry 6 }

docsIfCmServiceRqRetries OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of attempts to transmit bandwidth requests  
that did not result in acknowledgment.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.4."

::= { docsIfCmServiceEntry 7 }

docsIfCmServiceRqExceededs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The number of requests for bandwidth that failed due to  
excessive retries without acknowledgment.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.4."

::= { docsIfCmServiceEntry 8 }

docsIfCmServiceExtTxSlotsImmed OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in immediate (contention) mode. This includes only those PDUs that are presumed to have arrived at the head-end

(i.e., those that were explicitly acknowledged). It does not include retransmission attempts or mini-slots used by requests.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 9 }

#### docsIfCmServiceExtTxSlotsDed OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in dedicated mode (i.e., as a result of a unicast Data Grant).

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 10 }

--  
-- CMTS GROUP  
--



--  
-- The CMTS MAC Table  
--

docsIfCmtsMacTable OBJECT-TYPE  
SYNTAX SEQUENCE OF DocsIfCmtsMacEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

"Describes the attributes of each CMTS MAC interface,  
extending the information available from ifEntry.

Mandatory for all CMTS devices."

::= { docsIfCmtsObjects 1 }

docsIfCmtsMacEntry OBJECT-TYPE

SYNTAX DocsIfCmtsMacEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

"An entry containing objects describing attributes of each  
MAC entry, extending the information in ifEntry.

An entry in this table exists for each ifEntry with an  
ifType of docsCableMaclayer(127)."

INDEX { ifIndex }

::= { docsIfCmtsMacTable 1 }

DocsIfCmtsMacEntry ::= SEQUENCE {  
docsIfCmtsCapabilities BITS,  
docsIfCmtsSyncInterval Integer32,  
docsIfCmtsUcdInterval Integer32,  
docsIfCmtsMaxServiceIds Integer32,  
docsIfCmtsInsertionInterval TimeTicks, -- Obsolete  
docsIfCmtsInvitedRangingAttempts Integer32,  
docsIfCmtsInsertInterval TimeInterval,  
docsIfCmtsMacStorageType StorageType  
}

docsIfCmtsCapabilities OBJECT-TYPE

SYNTAX BITS {  
atmCells(0),  
concatenation(1)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies the capabilities of the CMTS MAC implementation at this interface. Note that packet transmission is always supported. Therefore, there is no specific bit required to explicitly indicate this capability. Note that BITS objects are encoded most significant bit first. For example, if bit 1 is set, the value of this object is the octet string '40'H."  
::= { docsIfCmtsMacEntry 1 }

#### docsIfCmtsSyncInterval OBJECT-TYPE

SYNTAX Integer32 (1..200)  
UNITS "Milliseconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"The interval between CMTS transmission of successive SYNC messages at this interface."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.3."  
::= { docsIfCmtsMacEntry 2 }

#### docsIfCmtsUcdInterval OBJECT-TYPE

SYNTAX Integer32 (1..2000)  
UNITS "Milliseconds"  
MAX-ACCESS read-write  
  
STATUS current  
DESCRIPTION  
"The interval between CMTS transmission of successive Upstream Channel Descriptor messages for each upstream channel at this interface."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.3"  
::= { docsIfCmtsMacEntry 3 }

#### docsIfCmtsMaxServiceIds OBJECT-TYPE

SYNTAX Integer32 (1..16383)  
UNITS "SIDs"  
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of service IDs that may be simultaneously active."

::= { docsIfCmtsMacEntry 4 }

docsIfCmtsInsertionInterval OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-write

STATUS obsolete

DESCRIPTION

"The amount of time to elapse between each broadcast initial maintenance grant. Broadcast initial maintenance grants are used to allow

new cable modems to join the

network. Zero indicates that a vendor-specific algorithm is used instead of a fixed time. The maximum amount of

time permitted by the specification is 2 seconds.

This object has been obsoleted and replaced by docsIfCmtsInsertInterval to fix a SYNTAX typing problem."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex B."

::= { docsIfCmtsMacEntry 5 }

docsIfCmtsInvitedRangingAttempts OBJECT-TYPE

SYNTAX Integer32 (0..1024)

UNITS "attempts"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of attempts to make on invitations for ranging requests. A value of zero means the system SHOULD attempt to range forever."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency

Interface Specification SP-RFIV2.0-I10-051209,

Section 9.3.3 and Annex B."

::= { docsIfCmtsMacEntry 6 }

docsIfCmtsInsertInterval OBJECT-TYPE

SYNTAX TimeInterval

UNITS "HundredOfSeconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The amount of time to elapse between each broadcast initial maintenance grant. Broadcast initial maintenance grants are used to allow new cable modems to join the network. Zero indicates that a vendor-specific algorithm is used instead of a fixed time. The maximum amount of time permitted by the specification is 2 seconds."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex B."

::= { docsIfCmtsMacEntry 7 }

docsIfCmtsMacStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The storage type for this conceptual row.

Entries with this object set to permanent(4) do not require write operations for read-write objects."

::= { docsIfCmtsMacEntry 8 }

--

--

-- CMTS status table.

--

docsIfCmtsStatusTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"For the MAC layer, this group maintains a number of status objects and counters."

::= { docsIfCmtsObjects 2 }

docsIfCmtsStatusEntry OBJECT-TYPE

SYNTAX DocsIfCmtsStatusEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"Status entry for a single MAC layer.

An entry in this table exists for each ifEntry with an ifType of docsCableMaclayer(127)."

INDEX { ifIndex }

::= { docsIfCmtsStatusTable 1 }

```
DocsIfCmtsStatusEntry ::= SEQUENCE {
    docsIfCmtsStatusInvalidRangeReqs
        Counter32,
    docsIfCmtsStatusRangingAborted    Counter32,
    docsIfCmtsStatusInvalidRegReqs    Counter32,
    docsIfCmtsStatusFailedRegReqs     Counter32,
    docsIfCmtsStatusInvalidDataReqs   Counter32,
    docsIfCmtsStatusT5Timeouts        Counter32
}
```

docsIfCmtsStatusInvalidRangeReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts invalid RNG-REQ messages received on this interface.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.5."

::= { docsIfCmtsStatusEntry 1 }

docsIfCmtsStatusRangingAborted OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts ranging attempts that were explicitly aborted by the CMTS.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.6."

::= { docsIfCmtsStatusEntry 2 }

docsIfCmtsStatusInvalidRegReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts invalid REG-REQ messages  
received on  
this interface; that is, syntax, out of range parameters,  
or erroneous requests.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.7."

::= { docsIfCmtsStatusEntry 3 }

docsIfCmtsStatusFailedRegReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts failed registration attempts. Included  
are docsIfCmtsStatusInvalidRegReqs, authentication, and  
class of service failures.  
Discontinuities in the value of this counter can occur  
at reinitialization  
of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,

Section 8.3.7."

::= { docsIfCmtsStatusEntry 4 }

docsIfCmtsStatusInvalidDataReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts invalid data request messages received on this interface.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsStatusEntry 5 }

docsIfCmtsStatusT5Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts the number of times counter T5 expired on this interface.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 9-2."

::= { docsIfCmtsStatusEntry 6 }

--

-- CM status table (within CMTS).

-- This table is implemented only at the CMTS.

-- It contains per-CM status information available in the CMTS.

--

docsIfCmtsCmStatusTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of objects in the CMTS, maintained for each cable modem connected to this CMTS."

::= { docsIfCmtsObjects 3 }

docsIfCmtsCmStatusEntry OBJECT-TYPE

SYNTAX DocsIfCmtsCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Status information for a single cable modem.

An entry in this table exists for each cable modem that is connected to the CMTS implementing this table."

INDEX { docsIfCmtsCmStatusIndex }

::= { docsIfCmtsCmStatusTable 1 }

DocsIfCmtsCmStatusEntry ::= SEQUENCE {

docsIfCmtsCmStatusIndex Integer32,  
docsIfCmtsCmStatusMacAddress MacAddress,  
docsIfCmtsCmStatusIpAddress IpAddress, -- deprecated  
docsIfCmtsCmStatusDownChannellfIndex InterfaceIndexOrZero,  
docsIfCmtsCmStatusUpChannellfIndex InterfaceIndexOrZero,  
docsIfCmtsCmStatusRxPower TenthdBmV,  
docsIfCmtsCmStatusTimingOffset Unsigned32,  
docsIfCmtsCmStatusEqualizationData

DocsEqualizerData,

docsIfCmtsCmStatusValue INTEGER,  
docsIfCmtsCmStatusUnerroreds Counter32,  
docsIfCmtsCmStatusCorrecteds Counter32,  
docsIfCmtsCmStatusUncorrectables Counter32,  
docsIfCmtsCmStatusSignalNoise TenthdB,  
docsIfCmtsCmStatusMicroreflections Integer32,  
docsIfCmtsCmStatusExtUnerroreds Counter64,  
docsIfCmtsCmStatusExtCorrecteds Counter64,  
docsIfCmtsCmStatusExtUncorrectables Counter64,  
docsIfCmtsCmStatusDocsisRegMode DocsisQosVersion,  
docsIfCmtsCmStatusModulationType DocsisUpstreamType,  
docsIfCmtsCmStatusInetAddressType InetAddressType,  
docsIfCmtsCmStatusInetAddress InetAddress,

docsIfCmtsCmStatusValueLastUpdate TimeStamp,  
docsIfCmtsCmStatusHighResolutionTimingOffset Unsigned32

}

docsIfCmtsCmStatusIndex OBJECT-TYPE

SYNTAX



Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index value to uniquely identify an entry in this table.

For an individual cable modem, this index value SHOULD

NOT change during CMTS uptime."

::= { docsIfCmtsCmStatusEntry 1 }

docsIfCmtsCmStatusMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"MAC address of the cable modem. If the cable modem has multiple MAC addresses, this is the MAC address associated with the Cable interface."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFiv2.0-I10-051209,

Section 8.2.2."

::= { docsIfCmtsCmStatusEntry 2 }

docsIfCmtsCmStatusIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"IP address

of this cable modem. If the cable modem has no

IP address assigned, or the IP address is unknown, this object returns a value of 0.0.0.0. If the cable modem has multiple IP addresses, this object returns the IP address associated with the Cable interface.

This object has been deprecated and replaced by

docsIfCmtsCmStatusInetAddressType and

docsIfCmtsCmStatusInetAddress, to enable IPv6 addressing in the future."

::= { docsIfCmtsCmStatusEntry 3 }

docsIfCmtsCmStatusDownChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"IfIndex of the downstream channel that this CM is connected to. If the downstream channel is unknown, this object returns a value of zero."

::= { docsIfCmtsCmStatusEntry 4 }

docsIfCmtsCmStatusUpChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"For DOCSIS 2.0, indicates the ifIndex of the logical upstream channel (ifType 205) this CM is connected to. For DOCSIS 1.x, indicates the ifIndex of the upstream channel (ifType 129) this CM is connected to. If the upstream channel is unknown, this object returns a value of zero."

::= { docsIfCmtsCmStatusEntry 5 }

docsIfCmtsCmStatusRxPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS "TenthdBmV"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The receive power as perceived for upstream data from this cable modem. If the receive power is unknown, this object returns a value of zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.18."

::= { docsIfCmtsCmStatusEntry 6

}

docsIfCmtsCmStatusTimingOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A measure of the current round trip time for this CM. Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS. Units are in terms of (6.25 microseconds/64). Returns zero if the value is unknown. For channels requiring finer resolution, please refer to object docsIfCmtsCmStatusHighResolutionTimingOffset."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.17."

::= { docsIfCmtsCmStatusEntry 7 }

### docsIfCmtsCmStatusEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Equalization data for this CM, as measured by the CMTS.  
Returns the zero-length OCTET STRING if the value is  
unknown or if there is no equalization data available  
or defined."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 8-23."

::= { docsIfCmtsCmStatusEntry 8 }

### docsIfCmtsCmStatusValue OBJECT-TYPE

SYNTAX INTEGER {

other(1),

ranging(2),

rangingAborted(3),

rangingComplete(4),

ipComplete(5),

registrationComplete(6),

accessDenied(7),

operational(8),

-- value 8 should not be used

registeredBPPIinitializing(9)

}

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current cable modem connectivity state, as specified  
in the RF Interface Specification. Returned status  
information is the CM status, as assumed by the CMTS,  
and indicates

the following events:

other(1)

Any state other than below.

ranging(2)

The CMTS has received an Initial Ranging Request message from the CM, and the ranging process is not yet complete.

rangingAborted(3)

The CMTS has sent a Ranging Abort message to the CM.

rangingComplete(4)

The CMTS has sent a Ranging Complete message to the CM.

ipComplete(5)

The CMTS has received a DHCP reply message and forwarded it to the CM.

registrationComplete(6)

The CMTS has sent a Registration Response message to the CM.

accessDenied(7)

The CMTS has sent a Registration Aborted message to the CM.

operational(8)

Value 8 is considered reserved and should not be defined in future revisions of this MIB module to avoid conflict with documented

implementations that support value 8 to

indicate operational state after completing the BPI initialization process.

registeredBPIInitializing(9)

Baseline Privacy (BPI) is enabled and the CMTS is in the process of completing BPI initialization. This state MAY last for a significant length of time if failures occur during the initialization process. After completion of BPI initialization, the CMTS will report registrationComplete(6).

The CMTS only needs to report states it is able to detect."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 11.2."

::= { docsIfCmtsCmStatusEntry 9 }

docsIfCmtsCmStatusUnerrored OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received without error from this cable modem. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 10 }

#### docsIfCmtsCmStatusCorrecteds OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received with correctable errors from this cable modem. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime

for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 11 }

#### docsIfCmtsCmStatusUncorrectables OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received with uncorrectable errors from this cable modem. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209,

Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 12 }

docsIfCmtsCmStatusSignalNoise OBJECT-TYPE

SYNTAX TenthdB

UNITS "TenthdB"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Signal/Noise ratio as perceived for upstream data from this cable modem.

If the Signal/Noise is unknown, this object returns a value of zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 4-1 and 4-2."

::= { docsIfCmtsCmStatusEntry 13 }

docsIfCmtsCmStatusMicroreflections OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "-dBc"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Total microreflections, including in-channel response as perceived on this interface, measured in dBc below the signal level.

This object is not assumed to return an absolutely accurate value, but it gives a rough indication of microreflections

received on this interface.

It is up to the implementer to provide information as accurately as possible.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 4-1 and 4-2"

::= { docsIfCmtsCmStatusEntry 14 }

docsIfCmtsCmStatusExtUnerrored OBJECT-TYPE

SYNTAX Counter64  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Codewords received without error from this cable modem.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the

value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.5."

::= { docsIfCmtsCmStatusEntry 15 }

docsIfCmtsCmStatusExtCorrecteds OBJECT-TYPE

SYNTAX Counter64  
UNITS "codewords"

MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"Codewords received with correctable errors from this  
cable modem.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.5."

::= { docsIfCmtsCmStatusEntry

16 }

docsIfCmtsCmStatusExtUncorrectables OBJECT-TYPE

SYNTAX Counter64  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Codewords received with uncorrectable errors from this  
cable modem.  
Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.5."

::= { docsIfCmtsCmStatusEntry 17 }

docsIfCmtsCmStatusDocsisRegMode OBJECT-TYPE

SYNTAX DocsisQosVersion

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indication of whether the CM has registered using 1.0 Class of Service or 1.1 Quality of Service."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex G."

::= { docsIfCmtsCmStatusEntry 18 }

docsIfCmtsCmStatusModulationType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates modulation type currently used by the CM. Since this object specifically identifies PHY mode, the shared type is not permitted. If the upstream channel is unknown, this object returns a value of zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

::= { docsIfCmtsCmStatusEntry 19 }

docsIfCmtsCmStatusInetAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of internet address of docsIfCmtsCmStatusInetAddress. If the cable modem internet address is unassigned or unknown, then the



value of this object is unknown(0)."  
::= { docsIfCmtsCmStatusEntry 20 }

#### docsIfCmtsCmStatusInetAddress OBJECT-TYPE

SYNTAX InetAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Internet address of this cable modem. If the Cable Modem has no Internet address assigned, or the Internet address is unknown, the value of this object is the zero-length OCTET STRING. If the cable modem has multiple Internet addresses, this object returns the Internet address associated with the Cable (i.e., RF MAC) interface."

::= { docsIfCmtsCmStatusEntry 21 }

#### docsIfCmtsCmStatusValueLastUpdate OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when docsIfCmtsCmStatusValue was last updated."

::= { docsIfCmtsCmStatusEntry 22 }

#### docsIfCmtsCmStatusHighResolutionTimingOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"A measure of the current round trip time for this CM. Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS. Units are in terms of (6.25 microseconds/(64\*256)). Returns zero if the value is unknown.

This is the high resolution version of object docsIfCmtsCmStatusTimingOffset, for channels requiring finer resolution."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 6.2.17."

::= { docsIfCmtsCmStatusEntry

23 }

--

-- The CMTS Service Table.

--

docsIfCmtsServiceTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsServiceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of upstream service queues  
in a Cable Modem Termination System."

::= { docsIfCmtsObjects 4 }

docsIfCmtsServiceEntry OBJECT-TYPE

SYNTAX DocsIfCmtsServiceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of a single upstream bandwidth  
service queue.

Entries in this table exist for each ifEntry with an  
ifType of docsCableMaclayer(127), and for each service  
queue (Service ID) within this MAC layer.

Entries in this table are created with the creation of  
individual Service IDs by the MAC layer and removed  
when a Service ID is removed."

INDEX { ifIndex, docsIfCmtsServiceId }

::= { docsIfCmtsServiceTable

1 }

DocsIfCmtsServiceEntry ::= SEQUENCE {

docsIfCmtsServiceId Integer32,  
docsIfCmtsServiceCmStatusIndex Integer32, -- deprecated  
docsIfCmtsServiceAdminStatus INTEGER,  
docsIfCmtsServiceQosProfile Integer32,  
docsIfCmtsServiceCreateTime TimeStamp,  
docsIfCmtsServiceInOctets Counter32,  
docsIfCmtsServiceInPackets Counter32,  
docsIfCmtsServiceNewCmStatusIndex Integer32  
}

docsIfCmtsServiceId OBJECT-TYPE

SYNTAX Integer32 (1..16383)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Identifies a service queue for upstream bandwidth. The attributes of this service queue are shared between the Cable Modem and the Cable Modem Termination System. The CMTS allocates upstream bandwidth to this service queue based on requests from the CM and on the class of service

associated with this queue."

::= { docsIfCmtsServiceEntry 1 }

docsIfCmtsServiceCmStatusIndex OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"Pointer to an entry in docsIfCmtsCmStatusTable identifying the cable modem using this Service Queue. If multiple cable modems are using this Service Queue, the value of this object is zero.

This object has been deprecated and replaced by docsIfCmtsServiceNewCmStatusIndex, to fix a mismatch of the value range with respect to docsIfCmtsCmStatusIndex (1..2147483647)."

::= { docsIfCmtsServiceEntry 2 }

docsIfCmtsServiceAdminStatus OBJECT-TYPE

SYNTAX INTEGER {  
enabled(1),  
disabled(2),  
destroyed(3) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows a service class for a particular modem to be suppressed,

(re-)enabled, or deleted altogether."

::= { docsIfCmtsServiceEntry 3 }

docsIfCmtsServiceQosProfile OBJECT-TYPE

SYNTAX Integer32 (0..16383)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index in docsIfQosProfileTable describing the quality of service attributes associated with this particular service. If no associated docsIfQosProfileTable entry exists, this object returns a value of zero."

::= { docsIfCmtsServiceEntry 4 }

docsIfCmtsServiceCreateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was created."

::= { docsIfCmtsServiceEntry 5 }

docsIfCmtsServiceInOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "Bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The cumulative number of Packet Data octets received on this Service

ID. The count does not include the size of the Cable MAC header.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsServiceEntry 6 }

docsIfCmtsServiceInPackets OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The cumulative number of Packet Data packets received on this Service ID.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsServiceEntry 7 }

docsIfCmtsServiceNewCmStatusIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)  
 MAX-ACCESS  
 read-only  
 STATUS current  
 DESCRIPTION  
 "Pointer (via docsIfCmtsCmStatusIndex) to an entry in  
 docsIfCmtsCmStatusTable identifying the cable modem  
 using this Service Queue. If multiple cable modems are  
 using this Service Queue, the value of this object is  
 zero."  
 ::= { docsIfCmtsServiceEntry 8 }

--  
 -- The following table provides upstream channel modulation profiles.  
 -- Entries in this table can be  
 -- re-used by one or more upstream channels. An upstream channel  
 -- will have a modulation profile for each value of  
 -- docsIfModIntervalUsageCode.  
 --

docsIfCmtsModulationTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsModulationEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "Describes a modulation profile associated with one or more  
 upstream channels."  
 ::= { docsIfCmtsObjects 5 }

docsIfCmtsModulationEntry OBJECT-TYPE

SYNTAX DocsIfCmtsModulationEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "Describes a modulation profile for an Interval Usage Code  
 for one or more upstream channels.  
 Entries in this table are created by the operator.  
  
 Initial default entries MAY be created at system  
 initialization time, which could report a value of  
 'permanent' or 'readOnly' for docsIfCmtsModStorageType.  
 A CMTS MAY reject the creation of additional Interval  
 Usage Codes for a modulation profile being defined at  
 Initialization time.  
 No individual objects have to be specified in order  
 to create an entry in this table.

Note that some objects do not have DEFVAL clauses but do have calculated defaults and need not be specified during row creation."

```
INDEX { docsIfCmtsModIndex, docsIfCmtsModIntervalUsageCode }  
::= { docsIfCmtsModulationTable 1 }
```

DocsIfCmtsModulationEntry

```
::= SEQUENCE {  
    docsIfCmtsModIndex          Integer32,  
    docsIfCmtsModIntervalUsageCode  INTEGER,  
    docsIfCmtsModControl        RowStatus,  
    docsIfCmtsModType           INTEGER,  
    docsIfCmtsModPreambleLen     Integer32,  
    docsIfCmtsModDifferentialEncoding  TruthValue,  
    docsIfCmtsModFECErrorCorrection  Integer32,  
    docsIfCmtsModFECCodeWordLength  Integer32,  
    docsIfCmtsModScramblerSeed     Integer32,  
    docsIfCmtsModMaxBurstSize     Integer32,  
    docsIfCmtsModGuardTimeSize    Unsigned32,  
    docsIfCmtsModLastCodewordShortened  TruthValue,  
    docsIfCmtsModScrambler        TruthValue,  
    docsIfCmtsModByteInterleaverDepth  Unsigned32,  
    docsIfCmtsModByteInterleaverBlockSize  Unsigned32,  
    docsIfCmtsModPreambleType      INTEGER,  
    docsIfCmtsModTcmErrorCorrectionOn  TruthValue,  
    docsIfCmtsModScdmaInterleaverStepSize  Unsigned32,  
    docsIfCmtsModScdmaSpreaderEnable  TruthValue,  
    docsIfCmtsModScdmaSubframeCodes  Unsigned32,  
    docsIfCmtsModChannelType       DocsisUpstreamType,  
    docsIfCmtsModStorageType       StorageType  
}
```

docsIfCmtsModIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index into the Channel Modulation table representing a group of Interval Usage Codes, all associated with the same channel."

```
::= { docsIfCmtsModulationEntry 1 }
```

docsIfCmtsModIntervalUsageCode OBJECT-TYPE

SYNTAX INTEGER {

request(1),

requestData(2),

initialRanging(3),

periodicRanging(4),  
shortData(5),

longData(6),  
advPhyShortData(9),  
advPhyLongData(10),  
ugs(11)

}

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An index into the Channel Modulation table that, when grouped with other Interval Usage Codes, fully instantiates all modulation sets for a given upstream channel."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFiv2.0-I10-051209, Table 8-20."

::= { docsIfCmtsModulationEntry 2 }

#### docsIfCmtsModControl OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Controls and reflects the status of rows in this table. There is no restriction on the changing of values in this table while their associated rows are active, with the exception of:

1. If a modulation profile is being referenced by one or more upstream channels, an attempt to set the value of docsIfCmtsModChannelType returns

an

'inconsistentValue' error.

2. If a modulation profile is being referenced by one or more upstream channels, an attempt to set docsIfCmtsModControl to destroy(6) or notInService(2) returns an 'inconsistentValue' error."

::= { docsIfCmtsModulationEntry 3 }

#### docsIfCmtsModType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

qpsk(2),  
qam16(3),  
qam8(4),  
qam32(5),  
qam64(6),  
qam128(7)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The modulation type used on this channel. Returns other(1) if the modulation type is not qpsk, qam16, qam8, qam32, qam64, or qam128. Type qam128 is used for SCDDMA channels only. See the reference for the modulation profiles implied by different modulation types."

REFERENCE

"Data-Over-Cable Service Interface Specifications:

Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { qpsk }

::= { docsIfCmtsModulationEntry 4 }

docsIfCmtsModPreambleLen OBJECT-TYPE

SYNTAX Integer32 (0..1536)

UNITS "bits"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The preamble length for this modulation profile in bits. Default value is the minimum needed by the implementation at the CMTS for the given modulation profile."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

::= { docsIfCmtsModulationEntry 5 }

docsIfCmtsModDifferentialEncoding OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Specifies whether or not differential encoding is used



on this channel."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { false }

::= { docsIfCmtsModulationEntry 6 }

docsIfCmtsModFECErrorCorrection OBJECT-TYPE

SYNTAX Integer32 (0..16)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The number of correctable errored bytes (t) used in forward error correction code. The value of 0 indicates that no correction is employed. The number of check bytes appended will be twice this value."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 0 }

::= { docsIfCmtsModulationEntry 7 }

docsIfCmtsModFECCodewordLength OBJECT-TYPE

SYNTAX Integer32 (1..255)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The number of data bytes (k) in the forward error correction codeword.

This object is not used if docsIfCmtsModFECErrorCorrection is zero."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 32 }

::= { docsIfCmtsModulationEntry 8 }

docsIfCmtsModScramblerSeed OBJECT-TYPE

SYNTAX Integer32 (0..32767)

MAX-ACCESS read-create

STATUS current  
DESCRIPTION  
"The 15-bit seed value for the scrambler polynomial."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 8-19."  
DEFVAL { 0 }  
::= { docsIfCmtsModulationEntry 9 }

docsIfCmtsModMaxBurstSize OBJECT-TYPE

SYNTAX Integer32  
(0..255)  
UNITS "mini-slots"

MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The maximum number of mini-slots that can be transmitted  
during this channel's burst time. Returns zero if the  
burst length is bounded by the allocation MAP rather than  
by this profile.  
Default value is 0, except for shortData, where it is 8."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 8-19."  
::= { docsIfCmtsModulationEntry 10 }

docsIfCmtsModGuardTimeSize OBJECT-TYPE

SYNTAX Unsigned32  
UNITS "Symbol-times"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of symbol-times that MUST follow the end of  
this channel's burst. Default value is the minimum time  
needed by the implementation for this modulation profile."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."  
::= { docsIfCmtsModulationEntry 11 }

docsIfCmtsModLastCodewordShortened OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"Indicates whether the last FEC codeword is truncated."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."  
DEFVAL { true }  
::= { docsIfCmtsModulationEntry 12 }

docsIfCmtsModScrambler OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"Indicates whether the scrambler is employed."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."  
DEFVAL { false }  
::= { docsIfCmtsModulationEntry 13 }

docsIfCmtsModByteInterleaverDepth OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"ATDMA Byte Interleaver Depth (Ir). This object returns 1  
for non-ATDMA profiles."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."  
DEFVAL { 1 }  
::= { docsIfCmtsModulationEntry 14 }

docsIfCmtsModByteInterleaverBlockSize OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"ATDMA Byte Interleaver Block size (Br). This object

returns zero for non-ATDMA profiles "

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { 18 }

::= { docsIfCmtsModulationEntry 15 }

docsIfCmtsModPreambleType OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

qpsk0(1),

qpsk1(2)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Preamble type for DOCSIS 2.0 bursts. The value  
'unknown(0)' represents a row entry consisting only of  
DOCSIS 1.x bursts"

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { qpsk0 }

::= { docsIfCmtsModulationEntry 16 }

docsIfCmtsModTcmErrorCorrectionOn OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Trellis Code Modulation (TCM) On/Off. This value returns  
false for non-S-CDMA profiles."

REFERENCE

"Data-Over-Cable  
Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { false }

::= { docsIfCmtsModulationEntry 17 }

docsIfCmtsModScdmaInterleaverStepSize OBJECT-TYPE

SYNTAX Unsigned32 (0 | 1..32)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" S-CDMA Interleaver step size. This value returns zero for non-S-CDMA profiles."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 1 }

::= { docsIfCmtsModulationEntry 18 }

docsIfCmtsModScdmaSpreaderEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" S-CDMA spreader. This value returns false for non-S-CDMA profiles. Default value for IUC 3 and 4 is OFF; for

all other IUCs it is ON."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

::= { docsIfCmtsModulationEntry 19 }

docsIfCmtsModScdmaSubframeCodes OBJECT-TYPE

SYNTAX Unsigned32 (0 | 1..128)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" S-CDMA sub-frame size. This value returns zero for non-S-CDMA profiles."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 6-7, and 8-19."

DEFVAL { 1 }

::= { docsIfCmtsModulationEntry 20 }

docsIfCmtsModChannelType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Describes the modulation channel type for this modulation entry.

All the active

entries in a modulation profile (that is all active entries that share a common docsIfCmtsModIndex) MUST have the same value of docsIfCmtsModChannelType."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

DEFVAL { tdma }

::= { docsIfCmtsModulationEntry 21 }

#### docsIfCmtsModStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The storage type for this conceptual row.

Entries with this object set to permanent(4) do not require write operations for read-write objects."

DEFVAL { nonVolatile }

::= { docsIfCmtsModulationEntry 22 }

#### docsIfCmtsQosProfilePermissions OBJECT-TYPE

SYNTAX BITS {

createByManagement(0),

updateByManagement(1),

createByModems(2)

}

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object specifies permitted methods of creating entries in docsIfQosProfileTable.

createByManagement(0) is set if entries can be created using SNMP. updateByManagement(1) is set if updating entries using SNMP is permitted. createByModems(2) is set if entries can be created based on information in REG-REQ MAC messages received from cable modems.

Information in this object is only applicable if docsIfQosProfileTable is implemented as read-create.

Otherwise, this object is implemented as read-only and returns createByModems(2).

Either createByManagement(0) or updateByManagement(1)

MUST be set when writing to this object.

Note that BITS objects are encoded most significant bit first. For example, if bit 2 is set, the value of this object is the octet string '20'H."

```
::= { docsIfCmtsObjects
6 }
```

docsIfCmtsMacToCmTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsMacToCmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a table to provide a quick access index into the docsIfCmtsCmStatusTable. There is exactly one row in this table for each row in the docsIfCmtsCmStatusTable. In general, the management station SHOULD use this table only to get a pointer into the docsIfCmtsCmStatusTable (which corresponds to the CM's RF interface MAC address) and SHOULD not iterate (e.g., GetNext through) this table."

```
::= { docsIfCmtsObjects 7 }
```

docsIfCmtsMacToCmEntry OBJECT-TYPE

SYNTAX DocsIfCmtsMacToCmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the docsIfCmtsMacToCmTable.

An entry in this table exists for each cable modem that is connected to the CMTS implementing this table."

```
INDEX { docsIfCmtsCmMac }
```

```
::= { docsIfCmtsMacToCmTable 1 }
```

```
DocsIfCmtsMacToCmEntry ::= SEQUENCE {
```

```
    docsIfCmtsCmMac   MacAddress,
    docsIfCmtsCmPtr   Integer32
}
```

docsIfCmtsCmMac OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The RF side MAC address for the referenced CM (e.g., the interface on the CM that has docsCableMacLayer(127) as

its ifType)."  
::= { docsIfCmtsMacToCmEntry 1 }

docsIfCmtsCmPtr OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An row index into docsIfCmtsCmStatusTable. When queried with the correct instance value (e.g., a CM's MAC address), returns the index in docsIfCmtsCmStatusTable that represents that CM."

::= { docsIfCmtsMacToCmEntry 2 }

-- The following independent object and associated table provide  
-- operators with a mechanism to evaluate the load/utilization of  
-- both upstream and downstream physical channels. This information  
-- may be used for capacity planning and incident analysis and may  
-- be particularly helpful in provisioning of high value QOS.  
--  
-- Utilization is expressed as an index representing the calculated  
-- percentage utilization of the upstream or downstream channel in  
-- the most recent sampling interval (i.e., utilization interval).  
-- Refer to the DESCRIPTION field of the  
-- docsIfCmtsChannelUtUtilization object for definitions and  
-- calculation details.

docsIfCmtsChannelUtilizationInterval OBJECT-TYPE

SYNTAX Integer32 (0..86400)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The time interval in seconds over which the channel utilization index is calculated. All upstream/downstream channels use the same docsIfCmtsChannelUtilizationInterval.

Setting a value of zero disables utilization reporting. A channel utilization index is calculated over a fixed window applying to the most recent docsIfCmtsChannelUtilizationInterval. It would therefore be prudent to use a relatively short docsIfCmtsChannelUtilizationInterval. It is a vendor decision whether to reset the timer when



docsIfCmtsChannelUtilizationInterval is changed during a utilization sampling period."  
::= { docsIfCmtsObjects 8 }

docsIfCmtsChannelUtilizationTable OBJECT-TYPE  
SYNTAX SEQUENCE OF DocsIfCmtsChannelUtilizationEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Reports utilization statistics for attached upstream and downstream physical channels."  
::= { docsIfCmtsObjects 9 }

docsIfCmtsChannelUtilizationEntry OBJECT-TYPE  
SYNTAX DocsIfCmtsChannelUtilizationEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Utilization statistics for a single upstream or downstream physical channel. An entry exists in this table for each ifEntry with an ifType equal to docsCableDownstream (128) or docsCableUpstream (129)."  
INDEX { ifIndex, docsIfCmtsChannelUtIfType, docsIfCmtsChannelUtId }  
::= { docsIfCmtsChannelUtilizationTable 1 }

DocsIfCmtsChannelUtilizationEntry ::= SEQUENCE {  
docsIfCmtsChannelUtIfType IANAifType,  
docsIfCmtsChannelUtId Integer32,  
docsIfCmtsChannelUtUtilization Integer32  
}

docsIfCmtsChannelUtIfType OBJECT-TYPE  
SYNTAX IANAifType  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The secondary index into this table. Indicates the IANA interface type associated with this physical channel. Only docsCableDownstream (128) and

docsCableUpstream (129) are valid."  
::= { docsIfCmtsChannelUtilizationEntry 1 }

docsIfCmtsChannelUtilId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The tertiary index into this table. Indicates the CMTS identifier for this physical channel."

::= { docsIfCmtsChannelUtilizationEntry 2 }

docsIfCmtsChannelUtUtilization OBJECT-TYPE

SYNTAX Integer32 (0..100)

UNITS "percent"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The calculated and truncated utilization index for this physical upstream or downstream channel, accurate as of the most recent docsIfCmtsChannelUtilizationInterval.

Upstream Channel Utilization Index:

The upstream channel utilization index is expressed as a percentage of mini-slots utilized on the physical channel, regardless of burst type. For an Initial Maintenance region, the mini-slots for the complete region are considered utilized if the CMTS received an upstream burst within the region from any CM on the physical channel. For contention REQ and REQ/DATA regions, the mini-slots for a transmission opportunity within the region are considered utilized if the CMTS received an upstream burst within the opportunity from any CM on the physical channel. For all other regions, utilized mini-slots are those in which the CMTS granted bandwidth to any unicast SID on the physical channel.

For an upstream interface that has multiple logical upstream channels enabled, the utilization index is a weighted sum of utilization indices for the logical channels. The weight for each utilization index is the percentage of upstream mini-slots allocated for the corresponding logical channel.

Example:

If 75% of bandwidth is allocated to the first logical channel and 25% to the second, and the utilization indices for each are 60 and 40, respectively, the

utilization index for the upstream physical channel is  $(60 * 0.75) + (40 * 0.25) = 55$ . This figure applies to the most recent utilization interval.

#### Downstream Channel Utilization Index:

The downstream channel utilization index is a percentage expressing the ratio between bytes used to transmit data versus the total number of bytes transmitted in the raw bandwidth of the MPEG channel. As with the upstream utilization index, the calculated value represents the most recent utilization interval.

Formula:

Downstream utilization index =  
 $(100 * (\text{data bytes} / \text{raw bytes}))$

Definitions:

Data bytes: Number of bytes transmitted as data in the

`docsIfCmtsChannelUtilizationInterval`.

Identical to `docsIfCmtsDownChannelCtrUsed`

Bytes measured over the utilization interval.

Raw bandwidth: Total number of bytes available for transmitting data, not including bytes used for headers and other overhead.

Raw bytes:  $(\text{raw bandwidth} * \text{docsIfCmtsChannelUtilizationInterval})$ .

Identical to `docsIfCmtsDownChannelCtrTotal`

Bytes measured over the utilization interval."

::= { docsIfCmtsChannelUtilizationEntry 3 }

-- The following table provides operators with input data  
-- appropriate for calculating downstream channel utilization.  
-- Operators may use the docsIfCmtsChannelUtilizationTable or  
-- perform their own polling of the  
-- docsIfCmtsDownChannelCounterTable objects to characterize  
--  
their downstream channel usage. The 32-bit counter objects are  
-- included to provide backward compatibility with SNMPv1 managers,  
-- which cannot access 64-bit counter objects.

docsIfCmtsDownChannelCounterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsDownChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table is implemented at the CMTS to collect downstream channel statistics for utilization

calculations."

::= { docsIfCmtsObjects 10 }

docsIfCmtsDownChannelCounterEntry OBJECT-TYPE

SYNTAX DocsIfCmtsDownChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry provides a list of traffic counters for a single downstream channel.

An entry in this table exists for each ifEntry with an ifType of docsCableDownstream(128)."

INDEX { ifIndex }

::= { docsIfCmtsDownChannelCounterTable  
1 }

DocsIfCmtsDownChannelCounterEntry ::= SEQUENCE {

docsIfCmtsDownChnlCtrId Integer32,  
docsIfCmtsDownChnlCtrTotalBytes Counter32,  
docsIfCmtsDownChnlCtrUsedBytes Counter32,  
docsIfCmtsDownChnlCtrExtTotalBytes Counter64,  
docsIfCmtsDownChnlCtrExtUsedBytes Counter64  
}

docsIfCmtsDownChnlCtrId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Cable Modem Termination System identification of the downstream channel within this particular MAC interface. If the interface is down, the object returns the most current value. If the downstream channel ID is unknown, this object returns a value of 0."

::= { docsIfCmtsDownChannelCounterEntry 1 }

docsIfCmtsDownChnlCtrTotalBytes OBJECT-TYPE

SYNTAX Counter32

UNITS "Bytes"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"At the CMTS, the total number of bytes in the Payload portion of MPEG Packets (i.e., not including MPEG header or pointer\_field) transported by this downstream channel. This is the 32-bit version of docsIfCmtsDownChnlCtrExtTotalBytes, included to provide back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 2 }

#### docsIfCmtsDownChnlCtrUsedBytes OBJECT-TYPE

SYNTAX Counter32

UNITS "Bytes"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"At the CMTS, the total number of DOCSIS data bytes transported by this downstream channel.

The number of data bytes is defined as the total number

of bytes transported in DOCSIS payloads minus the number of stuff bytes transported in DOCSIS payloads.

This is the 32-bit version of docsIfCmtsDownChnlCtrExtUsedBytes, included to provide back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 3 }

#### docsIfCmtsDownChnlCtrExtTotalBytes OBJECT-TYPE

SYNTAX Counter64

UNITS "Bytes"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"At the CMTS, the total number of bytes in the Payload portion of MPEG Packets (i.e., not including MPEG header or pointer\_field) transported by this downstream channel.

This is the 64-bit version of

docsIfCmtsDownChnlCtrTotalBytes and will not be accessible to SNMPv1 managers.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsDownChannelCounterEntry 4 }

docsIfCmtsDownChnlCtrExtUsedBytes OBJECT-TYPE

SYNTAX Counter64  
UNITS "Bytes"  
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At the CMTS, the total number of DOCSIS data bytes transported by this downstream channel. The number of data bytes is defined as the total number of bytes transported in DOCSIS payloads minus the number of stuff bytes transported in DOCSIS payloads.  
This is the 64-bit version of docsIfCmtsDownChnlCtrUsedBytes and will not be accessible to SNMPv1 managers.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsDownChannelCounterEntry 5 }

-- The following table provides operators with input data appropriate  
-- for calculating upstream channel utilization, and for determining  
-- the traffic characteristics of upstream channels. Operators may  
-- use the docsIfCmtsChannelUtilizationTable or perform their own  
-- polling of the docsIfCmtsUpChannelCounterTable objects for  
-- utilization determination.  
-- The first four 32 and 64 objects in this table are mandatory.  
-- Vendors may choose to implement the remaining optional objects to  
-- provide operators with finer characterization of upstream channel  
-- traffic patterns. The 32-bit counter objects are included to  
-- provide backward compatibility with SNMPv1 managers, which cannot  
-- access  
64-bit counter objects.

docsIfCmtsUpChannelCounterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsUpChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table is implemented at the CMTS to provide upstream channel statistics appropriate for channel utilization calculations."

::= { docsIfCmtsObjects 11 }

docsIfCmtsUpChannelCounterEntry OBJECT-TYPE

SYNTAX DocsIfCmtsUpChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"List of traffic statistics for a single upstream channel.

For DOCSIS 2.0 CMTSs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstreamChannel (205).

For DOCSIS 1.x CMTSs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstream (129)."

INDEX { ifIndex }

::= { docsIfCmtsUpChannelCounterTable 1 }

DocsIfCmtsUpChannelCounterEntry

::= SEQUENCE {

|                                             |            |
|---------------------------------------------|------------|
| docsIfCmtsUpChnlCtrId                       | Integer32, |
| docsIfCmtsUpChnlCtrTotalMslots              | Counter32, |
| docsIfCmtsUpChnlCtrUcastGrantedMslots       | Counter32, |
| docsIfCmtsUpChnlCtrTotalCntnMslots          | Counter32, |
| docsIfCmtsUpChnlCtrUsedCntnMslots           | Counter32, |
| docsIfCmtsUpChnlCtrExtTotalMslots           | Counter64, |
| docsIfCmtsUpChnlCtrExtUcastGrantedMslots    | Counter64, |
| docsIfCmtsUpChnlCtrExtTotalCntnMslots       | Counter64, |
| docsIfCmtsUpChnlCtrExtUsedCntnMslots        | Counter64, |
| docsIfCmtsUpChnlCtrCollCntnMslots           | Counter32, |
| docsIfCmtsUpChnlCtrTotalCntnReqMslots       | Counter32, |
| docsIfCmtsUpChnlCtrUsedCntnReqMslots        | Counter32, |
| docsIfCmtsUpChnlCtrCollCntnReqMslots        | Counter32, |
| docsIfCmtsUpChnlCtrTotalCntnReqDataMslots   | Counter32, |
| docsIfCmtsUpChnlCtrUsedCntnReqDataMslots    | Counter32, |
| docsIfCmtsUpChnlCtrCollCntnReqDataMslots    | Counter32, |
| docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots | Counter32, |
| docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots  | Counter32, |
| docsIfCmtsUpChnlCtrCollCntnInitMaintMslots  | Counter32, |

```

docsIfCmtsUpChnlCtrExtCollCntnMslots Counter64,
docsIfCmtsUpChnlCtrExtTotalCntnReqMslots Counter64,
docsIfCmtsUpChnlCtrExtUsedCntnReqMslots Counter64,
docsIfCmtsUpChnlCtrExtCollCntnReqMslots Counter64,
docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots Counter64,
docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots Counter64,
docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots Counter64,
docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots Counter64,
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots Counter64,
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots Counter64
}

```

docsIfCmtsUpChnlCtrId

OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CMTS identification of the upstream channel."

::= { docsIfCmtsUpChannelCounterEntry 1 }

docsIfCmtsUpChnlCtrTotalMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of all mini-slots defined for this upstream logical channel. This count includes all IUCs and SIDs, even those allocated to the NULL SID for a 2.0 logical channel that is inactive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalMslots and is included for back compatibility with SNMPv1 managers. Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at

other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 2 }

docsIfCmtsUpChnlCtrUcastGrantedMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only



STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of unicast granted mini-slots on the upstream logical channel, regardless of burst type. Unicast granted mini-slots are those in which the CMTS assigned bandwidth to any unicast SID on the logical channel. However, this object does not include minis-lots for reserved IUCs, or grants to SIDs designated as meaning 'no CM'. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUcastGrantedMslots, and is included for back compatibility with SNMPv1 managers. Support for this object is mandatory.

Discontinuities

in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 3 }

docsIfCmtsUpChnlCtrTotalCntnMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots defined for this upstream logical channel. This count includes all mini-slots assigned to a broadcast or

multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnMslots, and is included for back compatibility with SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed

system, and at other

times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 4 }

docsIfCmtsUpChnlCtrUsedCntnMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots utilized on the upstream logical channel. For contention regions, utilized mini-slots are those in which the CMTS correctly received an upstream burst from any CM on the upstream logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnMslots and is included for back compatibility with SNMPv1 managers. Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 5 }

#### docsIfCmtsUpChnlCtrExtTotalMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of all mini-slots defined for this upstream logical channel. This count includes all IUCs and SIDs, even those allocated to the NULL SID for a 2.0 logical channel that is inactive. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated

ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 6 }

#### docsIfCmtsUpChnlCtrExtUcastGrantedMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of unicast granted mini-slots on the upstream logical channel, regardless of burst type. Unicast granted mini-slots are those in which the CMTS assigned bandwidth to any unicast SID on the logical channel. However, this object does not

include mini-slots for reserved IUCs, or grants to SIDs designated as meaning 'no CM'. This is the 64-bit version of docsIfCmtsUpChnlCtrUcastGrantedMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 7 }

docsIfCmtsUpChnlCtrExtTotalCntnMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots defined for this upstream logical channel. This count includes all mini-slots assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 8 }

docsIfCmtsUpChnlCtrExtUsedCntnMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention

mini-slots utilized on the upstream logical channel. For contention regions, utilized mini-slots are those in which the CMTS correctly received an upstream burst from any CM on the upstream logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of `ifCounterDiscontinuityTime` for the associated `ifIndex`."

```
::= { docsIfCmtsUpChannelCounterEntry  
9 }
```

`docsIfCmtsUpChnlCtrCollCntnMslots` OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots subjected to collisions on the upstream logical channel. For contention regions, these are the mini-slots applicable to bursts that the CMTS detected but could not correctly receive. This is the 32-bit version of `docsIfCmtsUpChnlCtrExtCollCntnMslots` and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of `ifCounterDiscontinuityTime` for the associated `ifIndex`."

```
::= { docsIfCmtsUpChannelCounterEntry 10 }
```

`docsIfCmtsUpChnlCtrTotalCntnReqMslots` OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC1 assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of `docsIfCmtsUpChnlCtrExtTotalCntnReqMslots` and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

`ifCounterDiscontinuityTime` for the associated `ifIndex`."

::= { docsIfCmtsUpChannelCounterEntry 11 }

docsIfCmtsUpChnlCtrUsedCntnReqMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots utilized on this upstream logical channel. This count includes all contention mini-slots for IUC1 applicable to bursts that the CMTS correctly received. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnReqMslots and is included for back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 12 }

docsIfCmtsUpChnlCtrCollCntnReqMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC1 applicable to bursts that the CMTS detected but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnReqMslots and is included for back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 13 }

docsIfCmtsUpChnlCtrTotalCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention

request data mini-slots defined for this upstream logical channel. This count includes all

mini-slots for IUC2

assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 14 }

docsIfCmtsUpChnlCtrUsedCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS correctly received.

This is the 32-bit version of

docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 15 }

docsIfCmtsUpChnlCtrCollCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS detected, but could not correctly receive. This is the

32-bit version of  
docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots  
and is  
included for back compatibility with SNMPv1 managers.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 16 }

docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention  
initial maintenance mini-slots defined for this upstream  
logical channel. This includes all mini-slots for IUC3  
assigned to a broadcast or multicast SID on the logical  
channel. This is the 32-bit version of  
docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots  
and is included for back compatibility

with SNMPv1

managers.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 17 }

docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention  
initial maintenance mini-slots utilized on this upstream  
logical channel. This includes all contention mini-slots  
for IUC3 applicable to bursts that the CMTS correctly  
received. This is the 32-bit version of  
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots  
and is included for back compatibility with SNMPv1  
managers.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 18 }

docsIfCmtsUpChnlCtrCollCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Current count, from CMTS initialization, of contention initial maintenance mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC3 applicable to bursts that the CMTS detected, but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization

of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 19 }

docsIfCmtsUpChnlCtrExtCollCntnMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Current count, from CMTS initialization, of collision contention mini-slots on the upstream logical channel. For contention regions, these are the mini-slots applicable to bursts that the CMTS detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime



for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 20 }

docsIfCmtsUpChnlCtrExtTotalCntnReqMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC1 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnReqMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 21 }

docsIfCmtsUpChnlCtrExtUsedCntnReqMslots

OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots utilized on this upstream logical channel. This count includes all contention mini-slots for IUC1 applicable to bursts that the CMTS correctly received. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnReqMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 22 }

docsIfCmtsUpChnlCtrExtCollCntnReqMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC1 applicable to bursts that the CMTS detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnReqMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 23 }

docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization,  
of contention

request data mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC2 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnReqDataMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 24 }

docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots utilized on this upstream logical

channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS correctly received. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 25 }

docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS

detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 26 }

docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of initial maintenance mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC3 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots

and will not be accessible to SNMPv1 managers.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 27 }

docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Current count, from CMTS initialization, of initial  
maintenance mini-slots utilized on this upstream logical  
channel. This includes all contention mini-slots for IUC3  
applicable to bursts that the CMTS correctly received.  
This is the 64-bit version of  
docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots  
and will not be accessible to SNMPv1 managers.  
Discontinuities

in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 28 }

docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention  
initial maintenance mini-slots subjected to collisions on  
this upstream logical channel. This includes all  
contention mini-slots for IUC3 applicable to bursts that  
the CMTS detected, but could not correctly receive.  
This is the 64-bit version of  
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots and will not  
be accessible to SNMPv1 managers.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

```

::= { docsIfCmtsUpChannelCounterEntry 29 }

--
-- notification group is for future extension.
--

docsIfNotification OBJECT IDENTIFIER ::= { docsIfMib 2 }

--
-- MIB Compliance statements.
--

--
-- Conformance definitions
--

docsIfConformance OBJECT IDENTIFIER ::= { docsIfMib 3 }
docsIfCompliances OBJECT IDENTIFIER ::= { docsIfConformance 1 }
docsIfGroups OBJECT IDENTIFIER ::= { docsIfConformance 2 }

docsIfBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The compliance statement for devices that implement
        DOCSIS 1.x compliant Radio Frequency Interfaces."

MODULE -- docsIfMib

-- unconditionally mandatory groups
MANDATORY-GROUPS {
    docsIfBasicGroup
}

-- conditionally mandatory group
GROUP docsIfCmGroup

DESCRIPTION
    "This group is implemented only in cable modems, not in
    cable modem termination systems."

-- conditionally mandatory group
GROUP docsIfCmtsGroup
DESCRIPTION
    "This group is implemented only in cable modem termination
    systems, not in cable modems."

```

OBJECT docsIfDownChannelFrequency  
WRITE-SYNTAX Integer32 (54000000..860000000)  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-write in cable modem termination systems;  
read-only in cable modems. The values above are  
appropriate for a cable plant using a Sub-Split channel  
plan. If DOCSIS is extended to cover other types of  
channel plans (and frequency allocations), this object  
will be modified accordingly."

OBJECT docsIfDownChannelWidth  
WRITE-SYNTAX Integer32 (6000000)  
MIN-ACCESS read-only  
DESCRIPTION  
"It is important to implement this object as read-only.  
In cable modems, this object is always  
implemented as  
read-only. The above value is appropriate for cable  
plants running under NTSC (National Television  
Standards Committee) standards. If DOCSIS is extended to  
work with other standards (e.g., European standards), this  
object will be modified accordingly."

OBJECT docsIfDownChannelModulation  
WRITE-SYNTAX INTEGER {  
    qam64 (3),  
    qam256 (4)  
}  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfDownChannelInterleave  
WRITE-SYNTAX INTEGER {  
    taps8Increment16(3),  
    taps16Increment8(4),  
    taps32Increment4(5),  
  
    taps64Increment2(6),  
    taps128Increment1(7)  
}  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-write in cable modem termination

systems;

read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..42000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems. The values above are  
appropriate for a cable plant using a Sub-Split channel  
plan. If DOCSIS is extended to cover other types of  
channel plans (and frequency allocations), this object  
will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..3200000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems. The above value is appropriate  
for cable plants running under NTSC (National Television  
Standards Committee) standards. If DOCSIS is extended to  
work with other standards (e.g., European standards), this  
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant  
to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION



"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxTxBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant  
to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {

createByManagement(0),

updateByManagement(1)

}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

WRITE-SYNTAX INTEGER {

qpsk (2),

qam16 (3)

}

DESCRIPTION

"A management station MAY only set 16QAM or QPSK modulation,  
but others might be possible, based on device  
configuration."

OBJECT docsIfCmtsModPreambleLen

SYNTAX Integer32 (0..1024)

DESCRIPTION

"The range of the values for this MODULE-COMPLIANCE  
is 0..1024."

OBJECT docsIfCmtsModFECErrorCorrection

SYNTAX Integer32 (0..10)

DESCRIPTION

"The range of the values for this MODULE-COMPLIANCE  
is 0..10."

::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for devices that implement  
DOCSIS 2.0 Radio Frequency Interfaces."

MODULE -- docsIfMib

```
-- unconditionally
mandatory groups
MANDATORY-GROUPS {
  docsIfBasicGroupV2
}
```

```
-- conditionally mandatory group
GROUP docsIfCmGroupV2
DESCRIPTION
  "This group is implemented only in cable modems, not in
  cable modem termination systems."
```

```
-- conditionally mandatory group
GROUP docsIfCmtsGroupV2
DESCRIPTION
  "This group is implemented only in cable modem termination
  systems, not in cable modems."
```

```
OBJECT docsIfDownChannelFrequency
WRITE-SYNTAX Integer32 (47000000..86200000)
MIN-ACCESS read-only
DESCRIPTION
  "Read-write in cable modem termination systems;
  read-only in cable modems.
  A range of 54MHz to 860MHz is appropriate for a cable
  plant using a North American Sub-Split channel plan.
  The spectrum range has been expanded to accommodate
  a lower edge of 47MHz and an upper edge of 862MHz
  for some European channel plans.
  If DOCSIS is extended to cover other
types of channel
  plans (and frequency allocations), this object will be
  modified accordingly."
```

```
OBJECT docsIfDownChannelWidth
WRITE-SYNTAX Integer32 (6000000 | 8000000)
MIN-ACCESS read-only
DESCRIPTION
  "It is important to implement this object as read-only.
  In cable modems, this object is always implemented as
  read-only. The value of 6 MHz is appropriate for cable
  plants running under NTSC (National Television
  Standards Committee) standards. The value of 8 MHz is
```

appropriate for cable plants running under ETSI standards. For other regional standards, this object will be modified accordingly."

OBJECT docsIfDownChannelModulation

```
WRITE-SYNTAX INTEGER {  
    qam64 (3),  
    qam256 (4)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfDownChannelInterleave

```
WRITE-SYNTAX INTEGER {  
    taps8Increment16(3),  
    taps16Increment8(4),  
    taps32Increment4(5),  
    taps64Increment2(6),  
    taps128Increment1(7),  
    taps12increment17(8)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..65000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems.

A range of 5MHz to 42MHz is appropriate for a cable plant using a North American Sub-Split channel plan.

The spectrum range has been expanded to accommodate an upper edge of 65MHz for some European channel plans.

If DOCSIS is extended to cover other types of channel plans (and frequency allocations), this object will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..6400000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems, read-only in cable modems. The above value is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. If DOCSIS is extended to work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems. It is compliant to implement this object as read-only in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaActiveCodes

MIN-ACCESS

read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems.

The number of active codes when SCDMA is in use MUST range  
from 64 to 128 and MUST be a non-Prime value.

Providing this range allows for the following features  
and capabilities:

1) Power management in S-CDMA spreader-on frames  
(with a 3 dB spread).

2) Avoidance of code 0.

3) Flexible mini-slot sizes with and without the use of  
code 0."

OBJECT docsIfUpChannelScdmaCodesPerSlot

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaFrameSize

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaHoppingSeed

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelCloneFrom

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfUpChannelUpdate

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfUpChannelStatus

MIN-ACCESS read-only

DESCRIPTION

"Read-create in Cable Modem Termination Systems;

read-only in Cable Modems.

Entries associated to physical interfaces only support

the read-only value 'active'."

OBJECT docsIfUpChannelPreEqEnable

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.

It is compliant to implement this object as read-only

in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.

It is compliant to implement this object as read-only

in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.

It is compliant to implement this object as read-only

in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxTransmitBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfCmRangingTimeout

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType

SYNTAX INTEGER {

unknown(0),

tdma(1),

atdma(2),

scdma(3)

}

DESCRIPTION

"CM does not use both modulation burst profiles of a  
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma'is  
not supported."

OBJECT docsIfCmtsServiceAdminStatus



MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

```
WRITE-SYNTAX BITS {  
    createByManagement(0),  
    updateByManagement(1)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

```
WRITE-SYNTAX INTEGER {  
    qpsk(2),  
    qam16(3),  
    qam64(6)  
}
```

DESCRIPTION

"A management station MAY only set 64QAM, 16QAM, or QPSK modulation for Time or Code division Multiple Access, but others might be possible based on device configuration."

OBJECT docsIfCmtsCmStatusModulationType

```
SYNTAX    INTEGER {  
    unknown(0),  
    tdma(1),  
    atdma(2),  
    scdma(3)  
}
```

DESCRIPTION

"CM does not use both modulation burst profiles of a 'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is not supported."

::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP

```
OBJECTS {  
    docsIfDownChannelId,  
    docsIfDownChannelFrequency,  
    docsIfDownChannelWidth,  
    docsIfDownChannelModulation,  
    docsIfDownChannelInterleave,  
    docsIfDownChannelPower,  
    docsIfUpChannelId,  
    docsIfUpChannelFrequency,  
    docsIfUpChannelWidth,  
    docsIfUpChannelModulationProfile,  
    docsIfUpChannelSlotSize,  
    docsIfUpChannelTxTimingOffset,  
    docsIfUpChannelRangingBackoffStart,  
    docsIfUpChannelRangingBackoffEnd,  
    docsIfUpChannelTxBackoffStart,  
    docsIfUpChannelTxBackoffEnd,  
    docsIfQosProfPriority,  
  
    docsIfQosProfMaxUpBandwidth,  
    docsIfQosProfGuarUpBandwidth,  
    docsIfQosProfMaxDownBandwidth,  
    docsIfQosProfMaxTxBurst,  
    docsIfQosProfBaselinePrivacy,  
    docsIfQosProfStatus,  
    docsIfSigQIncludesContention,  
    docsIfSigQUnerrored,  
    docsIfSigQCorrected,  
    docsIfSigQUncorrectable,  
    docsIfSigQSignalNoise,  
    docsIfSigQMicroreflections,
```

```
docsIfSigQEqualizationData
}
STATUS deprecated
DESCRIPTION
  "Group of objects implemented in both cable modems and
  cable modem termination systems."
::= { docsIfGroups 1 }
```

docsIfCmGroup OBJECT-GROUP

```
OBJECTS {
docsIfCmCmtsAddress,
docsIfCmCapabilities,
docsIfCmRangingTimeout,
docsIfCmStatusValue,
docsIfCmStatusCode,
docsIfCmStatusTxPower,
docsIfCmStatusResets,
docsIfCmStatusLostSyncs,
docsIfCmStatusInvalidMaps,
docsIfCmStatusInvalidUcds,
docsIfCmStatusInvalidRangingResponses,
docsIfCmStatusInvalidRegistrationResponses,
docsIfCmStatusT1Timeouts,
docsIfCmStatusT2Timeouts,
docsIfCmStatusT3Timeouts,
docsIfCmStatusT4Timeouts,
docsIfCmStatusRangingAborted,
docsIfCmServiceQosProfile,
docsIfCmServiceTxSlotsImmed,
docsIfCmServiceTxSlotsDed,
docsIfCmServiceTxRetries,
docsIfCmServiceTxExceededs,
docsIfCmServiceRqRetries,
docsIfCmServiceRqExceededs
}
STATUS deprecated
```

DESCRIPTION

```
"Group of objects implemented in cable modems."
::= { docsIfGroups 2 }
```

docsIfCmtsGroup OBJECT-GROUP

```
OBJECTS {
docsIfCmtsCapabilities,
docsIfCmtsSyncInterval,
docsIfCmtsUcdInterval,
```

```

docsIfCmtsMaxServiceIds,
docsIfCmtsInvitedRangingAttempts,
docsIfCmtsInsertInterval,
docsIfCmtsStatusInvalidRangeReqs,
docsIfCmtsStatusRangingAborted,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,
docsIfCmtsCmStatusIpAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,
docsIfCmtsCmStatusValue,
  docsIfCmtsCmStatusUnerrored,
  docsIfCmtsCmStatusCorrected,
  docsIfCmtsCmStatusUncorrectable,
  docsIfCmtsCmStatusSignalNoise,
  docsIfCmtsCmStatusMicroreflections,
docsIfCmtsServiceCmStatusIndex,
docsIfCmtsServiceAdminStatus,
docsIfCmtsServiceQosProfile,
docsIfCmtsServiceCreateTime,
docsIfCmtsServiceInOctets,
docsIfCmtsServiceInPackets,
docsIfCmtsModType,
docsIfCmtsModControl,
docsIfCmtsModPreambleLen,
docsIfCmtsModDifferentialEncoding,
docsIfCmtsModFECErrorCorrection,
docsIfCmtsModFECCodewordLength,
docsIfCmtsModScramblerSeed,
docsIfCmtsModMaxBurstSize,
docsIfCmtsModGuardTimeSize,
docsIfCmtsModLastCodewordShortened,
docsIfCmtsModScrambler,

docsIfCmtsQosProfilePermissions,
docsIfCmtsCmPtr
}
STATUS    deprecated
DESCRIPTION
  "Group of objects

```

implemented in Cable Modem Termination  
Systems."

```
::= { docsIfGroups 3 }
```

-- obsolete group

-- RFC 2670 already had a obsolete group, even though RFC2670

-- was the first version of this MIB Module.

docsIfObsoleteGroup OBJECT-GROUP

```
OBJECTS {
```

```
docsIfCmRangingRespTimeout,
```

```
docsIfCmtsInsertionInterval
```

```
}
```

```
STATUS obsolete
```

```
DESCRIPTION
```

```
"Group of objects obsoleted."
```

```
::= { docsIfGroups 4 }
```

docsIfBasicGroupV2 OBJECT-GROUP

```
OBJECTS {
```

```
docsIfDownChannelId,
```

```
docsIfDownChannelFrequency,
```

```
docsIfDownChannelWidth,
```

```
docsIfDownChannelModulation,
```

```
docsIfDownChannelInterleave,
```

```
docsIfDownChannelPower,
```

```
docsIfDownChannelAnnex,
```

```
docsIfUpChannelId,
```

```
docsIfUpChannelFrequency,
```

```
docsIfUpChannelWidth,
```

```
docsIfUpChannelModulationProfile,
```

```
docsIfUpChannelSlotSize,
```

```
docsIfUpChannelTxTimingOffset,
```

```
docsIfUpChannelRangingBackoffStart,
```

```
docsIfUpChannelRangingBackoffEnd,
```

```
docsIfUpChannelTxBackoffStart,
```

```
docsIfUpChannelTxBackoffEnd,
```

```
docsIfUpChannelScdmaActiveCodes,
```

```
docsIfUpChannelScdmaCodesPerSlot,
```

```
docsIfUpChannelScdmaFrameSize,
```

```
docsIfUpChannelScdmaHoppingSeed,
```

```
docsIfUpChannelType,
```

```
docsIfUpChannelCloneFrom,
```

```
docsIfUpChannelUpdate,
```

```
docsIfUpChannelStatus,
```

```

docsIfUpChannelPreEqEnable,
docsIfQosProfPriority,
docsIfQosProfMaxUpBandwidth,
docsIfQosProfGuarUpBandwidth,
docsIfQosProfMaxDownBandwidth,
docsIfQosProfBaselinePrivacy,
docsIfQosProfStatus,
docsIfQosProfMaxTransmitBurst,
docsIfSigQIncludesContention,
docsIfSigQUnerrored,
docsIfSigQCorrected,
docsIfSigQUncorrectable,
docsIfSigQSignalNoise,
docsIfSigQMicroreflections,
docsIfSigQExtUnerrored,
docsIfSigQExtCorrected,
docsIfSigQExtUncorrectable,
docsIfDocsisBaseCapability
}
STATUS    current
DESCRIPTION
    "Group of objects implemented in both cable modems and
    cable modem termination systems."
::= { docsIfGroups 5 }

```

#### docsIfCmGroupV2 OBJECT-GROUP

```

OBJECTS {
docsIfCmCmtsAddress,
docsIfCmCapabilities,
docsIfCmRangingTimeout,
docsIfCmStatusValue,
docsIfCmStatusCode,
docsIfCmStatusTxPower,
docsIfCmStatusResets,
docsIfCmStatusLostSyncs,
docsIfCmStatusInvalidMaps,
docsIfCmStatusInvalidUcds,
docsIfCmStatusInvalidRangingResponses,
docsIfCmStatusInvalidRegistrationResponses,
docsIfCmStatusT1Timeouts,
docsIfCmStatusT2Timeouts,
docsIfCmStatusT3Timeouts,
docsIfCmStatusT4Timeouts,
docsIfCmStatusRangingAborted,
docsIfCmStatusDocsisOperMode,
docsIfCmStatusModulationType,

```

```

docsIfCmStatusEqualizationData,
docsIfCmStatusUCCs,
docsIfCmStatusUCCFails,
docsIfCmServiceQosProfile,
docsIfCmServiceTxSlotsImmed,
docsIfCmServiceTxSlotsDed,
docsIfCmServiceTxRetries,
docsIfCmServiceTxExceededs,
docsIfCmServiceRqRetries,
docsIfCmServiceRqExceededs,
docsIfCmServiceExtTxSlotsImmed,
docsIfCmServiceExtTxSlotsDed,
docsIfSigQEqualizationData
}
STATUS    current
DESCRIPTION
    "Group of objects implemented in cable modems."
::= { docsIfGroups 6 }

```

#### docsIfCmtsGroupV2 OBJECT-GROUP

```

OBJECTS {
docsIfCmtsCapabilities,
docsIfCmtsSyncInterval,
docsIfCmtsUcdInterval,
docsIfCmtsMaxServiceIds,
docsIfCmtsInvitedRangingAttempts,
docsIfCmtsInsertInterval,
docsIfCmtsMacStorageType,
docsIfCmtsStatusInvalidRangeReqs,
docsIfCmtsStatusRangingAborted,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,
docsIfCmtsCmStatusValue,
docsIfCmtsCmStatusUnerrored,
docsIfCmtsCmStatusCorrected,
docsIfCmtsCmStatusUncorrectable,
docsIfCmtsCmStatusSignalNoise,
docsIfCmtsCmStatusMicroreflections,
docsIfCmtsCmStatusExtUnerrored,

```

docsIfCmtsCmStatusExtCorrecteds,

docsIfCmtsCmStatusExtUncorrectables,  
docsIfCmtsCmStatusDocsisRegMode,  
docsIfCmtsCmStatusModulationType,  
docsIfCmtsCmStatusInetAddressType,  
docsIfCmtsCmStatusInetAddress,  
docsIfCmtsCmStatusValueLastUpdate,  
docsIfCmtsCmStatusHighResolutionTimingOffset,  
docsIfCmtsServiceAdminStatus,  
docsIfCmtsServiceQosProfile,  
docsIfCmtsServiceCreateTime,  
docsIfCmtsServiceInOctets,  
docsIfCmtsServiceInPackets,  
docsIfCmtsServiceNewCmStatusIndex,  
docsIfCmtsModType,  
docsIfCmtsModControl,  
docsIfCmtsModPreambleLen,  
docsIfCmtsModDifferentialEncoding,  
docsIfCmtsModFECErrorCorrection,  
docsIfCmtsModFECCodewordLength,  
docsIfCmtsModScramblerSeed,  
docsIfCmtsModMaxBurstSize,  
docsIfCmtsModGuardTimeSize,  
docsIfCmtsModLastCodewordShortened,  
docsIfCmtsModScrambler,  
docsIfCmtsModByteInterleaverDepth,  
docsIfCmtsModByteInterleaverBlockSize,  
docsIfCmtsModPreambleType,  
docsIfCmtsModTcmErrorCorrectionOn,  
docsIfCmtsModScdmaInterleaverStepSize,  
docsIfCmtsModScdmaSpreaderEnable,  
docsIfCmtsModScdmaSubframeCodes,  
docsIfCmtsModChannelType,

docsIfCmtsModStorageType,  
docsIfCmtsQosProfilePermissions,  
docsIfCmtsCmPtr,  
docsIfCmtsChannelUtilizationInterval,  
docsIfCmtsChannelUtUtilization,  
docsIfCmtsDownChnlCtrId,  
docsIfCmtsDownChnlCtrTotalBytes,  
docsIfCmtsDownChnlCtrUsedBytes,  
docsIfCmtsDownChnlCtrExtTotalBytes,  
docsIfCmtsDownChnlCtrExtUsedBytes,  
docsIfCmtsUpChnlCtrId,



docsIfCmtsUpChnlCtrTotalMslots,  
docsIfCmtsUpChnlCtrUcastGrantedMslots,  
docsIfCmtsUpChnlCtrTotalCntnMslots,  
docsIfCmtsUpChnlCtrUsedCntnMslots,  
docsIfCmtsUpChnlCtrExtTotalMslots,

docsIfCmtsUpChnlCtrExtUcastGrantedMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnMslots,  
docsIfCmtsUpChnlCtrCollCntnMslots,  
docsIfCmtsUpChnlCtrTotalCntnReqMslots,  
docsIfCmtsUpChnlCtrUsedCntnReqMslots,  
docsIfCmtsUpChnlCtrCollCntnReqMslots,  
docsIfCmtsUpChnlCtrTotalCntnReqDataMslots,  
docsIfCmtsUpChnlCtrUsedCntnReqDataMslots,  
docsIfCmtsUpChnlCtrCollCntnReqDataMslots,  
docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtCollCntnMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnReqMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnReqMslots,  
docsIfCmtsUpChnlCtrExtCollCntnReqMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots,  
docsIfDownChannelStorageType,  
docsIfQosProfStorageType

}

STATUS current

DESCRIPTION

"Group of objects implemented in Cable Modem

Termination

Systems."

::= { docsIfGroups 7 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB

No license file was found, but licenses were detected in source scan.

```
RFC1213-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    mgmt, NetworkAddress, IpAddress, Counter, Gauge,
```

```
        TimeTicks
```

```
    FROM RFC1155-SMI
```

```
OBJECT-TYPE
```

```
    FROM RFC-1212;
```

```
-- This MIB module uses the extended OBJECT-TYPE macro as  
-- defined in [14];
```

```
-- MIB-II (same prefix as MIB-I)
```

```
mib-2    OBJECT IDENTIFIER ::= { mgmt 1 }
```

```
-- textual conventions
```

```
DisplayString ::=
```

```
    OCTET STRING
```

```
-- This data type is used to model textual information taken  
-- from the NVT ASCII character set.  By convention, objects  
-- with this syntax are declared as having
```

```
--
```

```
--    SIZE (0..255)
```

```
PhysAddress ::=
```

```
    OCTET STRING
```

```
-- This data type is used to model media addresses.  For many  
-- types of media, this will be in a binary representation.  
-- For example, an ethernet address would be represented as  
-- a string of 6 octets.
```

```
-- groups in MIB-II
```

```
system    OBJECT IDENTIFIER ::= { mib-2 1 }
```

```
interfaces
```

```
    OBJECT IDENTIFIER ::= { mib-2 2 }
```

```
at        OBJECT IDENTIFIER ::= { mib-2 3 }
```

```
ip        OBJECT IDENTIFIER ::= { mib-2 4 }
```

```

icmp    OBJECT IDENTIFIER ::= { mib-2 5 }

tcp     OBJECT IDENTIFIER ::= { mib-2 6 }

udp     OBJECT IDENTIFIER ::= { mib-2 7 }

egp     OBJECT IDENTIFIER ::= { mib-2 8 }

-- historical (some say hysterical)
-- cmot  OBJECT IDENTIFIER ::= { mib-2 9 }

transmission OBJECT IDENTIFIER ::= { mib-2 10 }

snmp    OBJECT IDENTIFIER ::= { mib-2 11 }

-- the System group

-- Implementation of the System group is mandatory for all
-- systems. If an agent is not configured to have a value
-- for any of these variables, a string of length 0 is
-- returned.

sysDescr OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "A textual description of the entity. This value
        should include the full name and version
        identification of the
system's hardware type,
        software operating-system, and networking
        software. It is mandatory that this only contain
        printable ASCII characters."
    ::= { system 1 }

sysObjectID OBJECT-TYPE
    SYNTAX  OBJECT IDENTIFIER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the
        entity. This value is allocated within the SMI
        enterprises subtree (1.3.6.1.4.1) and provides an
        easy and unambiguous means for determining `what

```

kind of box' is being managed. For example, if vendor `Flintstones, Inc.' was assigned the subtree 1.3.6.1.4.1.4242, it could assign the identifier 1.3.6.1.4.1.4242.1.1 to its `Fred Router'."

::= { system 2 }

sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The time (in hundredths of a second) since the network management portion of the system was last re-initialized."

::= { system 3 }

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The textual identification of the contact person for this managed node, together with information on how to contact this person."

::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name."

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The physical location of this node (e.g., `telephone closet, 3rd floor')."

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A value which indicates the set of services that this entity primarily offers.

The value is a sum. This sum initially takes the value zero, Then, for each layer, L, in the range 1 through 7, that this node performs transactions for, 2 raised to (L - 1) is added to the sum. For example, a node which performs primarily routing functions would have a value of 4 ( $2^{(3-1)}$ ). In contrast, a node which is a host offering application services would have a value of 72 ( $2^{(4-1)} + 2^{(7-1)}$ ). Note that in the context of the Internet suite of protocols, values should be calculated accordingly:

layer functionality

1 physical (e.g., repeaters)

2 datalink/subnetwork (e.g., bridges)

3 internet (e.g., IP gateways)

4 end-to-end (e.g., IP hosts)

7 applications (e.g., mail relays)

For systems including OSI protocols, layers 5 and 6 may also be counted."

::= { system 7 }

-- the Interfaces group

-- Implementation of the Interfaces group is mandatory for  
-- all systems.

ifNumber OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of network interfaces (regardless of their current state) present on this system."

::= { interfaces 1 }

-- the Interfaces table

-- The Interfaces table contains information on the entity's  
-- interfaces. Each interface is thought of as being  
-- attached to a `subnetwork'. Note that this term should  
-- not be confused with `subnet' which refers to an  
-- addressing partitioning scheme used in the Internet suite  
-- of  
protocols.

ifTable OBJECT-TYPE

SYNTAX SEQUENCE OF IfEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"A list of interface entries. The number of  
entries is given by the value of ifNumber."

::= { interfaces 2 }

ifEntry OBJECT-TYPE

SYNTAX IfEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"An interface entry containing objects at the  
subnetwork layer and below for a particular  
interface."

INDEX { ifIndex }

::= { ifTable 1 }

IfEntry ::=

SEQUENCE {

ifIndex

INTEGER,

ifDescr

DisplayString,

ifType

INTEGER,

ifMtu

INTEGER,

ifSpeed

Gauge,

ifPhysAddress

PhysAddress,

ifAdminStatus

INTEGER,

ifOperStatus

INTEGER,

ifLastChange

TimeTicks,

```

ifInOctets
    Counter,
ifInUcastPkts
    Counter,
ifInNUcastPkts
    Counter,
ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}

```

ifIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A unique value for each interface. Its value ranges between 1 and the value of ifNumber. The value for each interface must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization."

::= { ifEntry 1 }

ifDescr OBJECT-TYPE

SYNTAX DisplayString

(SIZE (0..255))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A textual string containing information about the

interface. This string should include the name of the manufacturer, the product name and the version of the hardware interface."

::= { ifEntry 2 }

ifType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following  
regular1822(2),  
hdh1822(3),  
ddn-x25(4),  
rfc877-x25(5),  
ethernet-csmacd(6),  
iso88023-csmacd(7),  
iso88024-tokenBus(8),  
iso88025-tokenRing(9),  
iso88026-man(10),  
starLan(11),  
proteon-10Mbit(12),  
proteon-80Mbit(13),  
hyperchannel(14),  
fddi(15),  
lapb(16),  
sdlc(17),  
ds1(18), -- T-1

e1(19), -- european equiv. of T-1  
basicISDN(20),  
primaryISDN(21), -- proprietary serial  
propPointToPointSerial(22),  
ppp(23),  
softwareLoopback(24),  
eon(25), -- CLNP over IP [11]  
ethernet-3Mbit(26),  
nsip(27), -- XNS over IP  
slip(28), -- generic SLIP  
ultra(29), -- ULTRA technologies  
ds3(30), -- T-3  
sip(31), -- SMDS  
frame-relay(32)

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The type of interface, distinguished according to the physical/link protocol(s) immediately `below' the network layer in the protocol stack."

::= { ifEntry 3 }



ifMtu OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The size of the largest datagram which can be sent/received on the interface, specified in octets. For interfaces that are used for transmitting network datagrams, this is the size of the largest network datagram that can be sent on the interface."

::= { ifEntry 4 }

ifSpeed OBJECT-TYPE  
SYNTAX Gauge  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"An estimate of the interface's current bandwidth in bits per second. For interfaces which do not vary in bandwidth or for those where no accurate estimation can be made, this object should contain the nominal bandwidth."

::= { ifEntry 5 }

ifPhysAddress OBJECT-TYPE  
SYNTAX PhysAddress  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The interface's address at the protocol layer immediately `below' the network layer in the protocol stack. For interfaces which do not have such an address (e.g., a serial line), this object should contain an octet string of zero length."

::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE  
SYNTAX INTEGER {  
    up(1),    -- ready to pass packets  
    down(2),  
    testing(3) -- in some test mode  
}  
ACCESS read-write  
STATUS mandatory

DESCRIPTION

"The desired state of the interface. The testing(3) state indicates that no operational packets can be passed."

::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The current operational state of the interface. The testing(3) state indicates that no operational packets can

be passed."

::= { ifEntry 8 }

ifLastChange OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The value of sysUpTime at the time the interface entered its current operational state. If the current state was entered prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."

::= { ifEntry 9 }

ifInOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of octets received on the interface, including framing characters."

::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of subnetwork-unicast packets delivered to a higher-layer protocol."

::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of non-unicast (i.e., subnetwork-broadcast or subnetwork-multicast) packets delivered to a higher-layer protocol."

::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space."

::= { ifEntry 13 }

ifInErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol."

::= { ifEntry 14 }

ifInUnknownProtos

OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of packets received via the interface which were discarded because of an unknown or unsupported protocol."

::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of octets transmitted out of the interface, including framing characters."

::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of packets that higher-level protocols requested be transmitted to a subnetwork-unicast address, including those that were discarded or not sent."

::= { ifEntry 17 }

ifOutNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of packets that higher-level protocols requested be transmitted to a non-unicast (i.e., a subnetwork-broadcast or subnetwork-multicast) address, including those that were discarded or not sent."

::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space."

::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory  
DESCRIPTION  
    "The number of outbound packets that could not be  
    transmitted because of errors."  
::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE  
SYNTAX Gauge  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The length of the output packet queue (in  
    packets)."  
::= { ifEntry 21 }

ifSpecific OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "A reference to MIB definitions specific to the  
    particular media being used to realize the  
    interface. For example, if the interface is  
    realized by an ethernet, then the value of this  
    object refers to a document defining objects  
    specific to ethernet. If this information is not  
    present, its value should be set to the OBJECT  
    IDENTIFIER { 0 0 }, which is a syntatically valid  
    object identifier, and any conformant  
    implementation of ASN.1 and BER must be able to  
    generate and recognize this value."  
::= { ifEntry 22 }

-- the Address Translation group  
  
-- Implementation of the Address Translation group is  
-- mandatory for all  
-- systems. Note however that this group  
-- is deprecated by MIB-II. That is, it is being included  
  
-- solely for compatibility with MIB-I nodes, and will most  
-- likely be excluded from MIB-III nodes. From MIB-II and  
-- onwards, each network protocol group contains its own  
-- address translation tables.  
  
-- The Address Translation group contains one table which is  
-- the union across all interfaces of the translation tables

-- for converting a NetworkAddress (e.g., an IP address) into  
-- a subnetwork-specific address. For lack of a better term,  
-- this document refers to such a subnetwork-specific address  
-- as a `physical' address.

-- Examples of such translation tables are: for broadcast  
-- media where ARP is in use, the translation table is  
-- equivalent to the ARP cache; or, on an X.25 network where  
-- non-algorithmic translation to X.121 addresses is  
-- required, the translation table contains the  
-- NetworkAddress to X.121 address equivalences.

atTable OBJECT-TYPE

SYNTAX

SEQUENCE OF AtEntry

ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The Address Translation tables contain the  
NetworkAddress to `physical' address equivalences.  
Some interfaces do not use translation tables for  
determining address equivalences (e.g., DDN-X.25  
has an algorithmic method); if all interfaces are  
of this type, then the Address Translation table  
is empty, i.e., has zero entries."

::= { at 1 }

atEntry OBJECT-TYPE

SYNTAX AtEntry

ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Each entry contains one NetworkAddress to  
`physical' address equivalence."

INDEX { atIfIndex,  
atNetAddress }

::= { atTable 1 }

AtEntry ::=

SEQUENCE {

atIfIndex

INTEGER,

atPhysAddress

PhysAddress,

atNetAddress

NetworkAddress

}

atIfIndex OBJECT-TYPE

SYNTAX

INTEGER

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The interface on which this entry's equivalence is effective. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { atEntry 1 }

atPhysAddress OBJECT-TYPE

SYNTAX PhysAddress

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The media-dependent `physical' address.

Setting this object to a null string (one of zero length) has the effect of invalidating the corresponding entry in the atTable object. That is, it effectively disassociates the interface identified with said entry from the mapping identified with said entry. It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table. Accordingly,

management stations must be prepared

to receive tabular information from agents that corresponds to entries not currently in use.

Proper interpretation of such entries requires examination of the relevant atPhysAddress object."

::= { atEntry 2 }

atNetAddress OBJECT-TYPE

SYNTAX NetworkAddress

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The NetworkAddress (e.g., the IP address) corresponding to the media-dependent `physical' address."

::= { atEntry 3 }

-- the IP group

-- Implementation of the IP group is mandatory for all  
-- systems.

#### ipForwarding OBJECT-TYPE

SYNTAX INTEGER {  
    forwarding(1), -- acting as a gateway  
    not-forwarding(2) -- NOT acting as a gateway  
}

ACCESS read-write

STATUS mandatory

#### DESCRIPTION

"The indication of whether this entity is acting  
as an IP gateway in respect

to the forwarding of

datagrams received by, but not addressed to, this  
entity. IP gateways forward datagrams. IP hosts  
do not (except those source-routed via the host).

Note that for some managed nodes, this object may  
take on only a subset of the values possible.

Accordingly, it is appropriate for an agent to  
return a `badValue' response if a management  
station attempts to change this object to an  
inappropriate value."

::= { ip 1 }

#### ipDefaultTTL OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

#### DESCRIPTION

"The default value inserted into the Time-To-Live  
field of the IP header of datagrams originated at  
this entity, whenever a TTL value is not supplied  
by the transport layer protocol."

::= { ip 2 }

#### ipInReceives OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

#### DESCRIPTION

"The total number of input datagrams received from  
interfaces, including those received in error."

::= { ip 3 }

#### ipInHdrErrors OBJECT-TYPE



SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of input datagrams discarded due to errors in their IP headers, including bad checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options, etc."

::= { ip 4 }

ipInAddrErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of input datagrams discarded because the IP address in their IP header's destination field was not a valid address to be received at this entity. This count includes invalid addresses (e.g., 0.0.0.0) and addresses of unsupported Classes (e.g.,

Class E). For entities

which are not IP Gateways and therefore do not forward datagrams, this counter includes datagrams discarded because the destination address was not a local address."

::= { ip 5 }

ipForwDatagrams OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of input datagrams for which this entity was not their final IP destination, as a result of which an attempt was made to find a route to forward them to that final destination. In entities which do not act as IP Gateways, this counter will include only those packets which were Source-Routed via this entity, and the Source-Route option processing was successful."

::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

DESCRIPTION

"The number of locally-addressed datagrams received successfully but discarded because of an unknown or unsupported protocol."  
::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of input IP datagrams for which no problems were encountered to prevent their continued processing, but which were discarded (e.g., for lack of buffer space). Note that this counter does not include any datagrams discarded while awaiting re-assembly."

::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of input datagrams successfully delivered to IP user-protocols (including ICMP)."

::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of IP datagrams which local IP user-protocols (including ICMP) supplied to IP in requests for transmission. Note that this counter does not include any datagrams counted in ipForwDatagrams."

::= { ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of output IP datagrams for which no

problem was encountered to prevent their transmission to their destination, but which were discarded (e.g., for lack of buffer space). Note that this counter would include datagrams counted in ipForwDatagrams if any such packets met this (discretionary) discard criterion."

::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams discarded because no route could be found to transmit them

to their

destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this 'no-route' criterion. Note that this includes any datagrams which a host cannot route because all of its default gateways are down."

::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The maximum number of seconds which received fragments are held while they are awaiting reassembly at this entity."

::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP fragments received which needed to be reassembled at this entity."

::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams successfully re-

assembled."

::= { ip 15 }

#### ipReasmFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of failures detected by the IP re-assembly algorithm (for whatever reason: timed out, errors, etc). Note that this is not necessarily a count of discarded IP fragments since some algorithms (notably the algorithm in RFC 815) can lose track of the number of fragments by combining them as they are received."

::= { ip 16 }

#### ipFragOKs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams that have been successfully fragmented at this entity."

::= { ip 17 }

#### ipFragFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams that have been discarded because they needed to be fragmented at this entity but could not be, e.g., because their Don't Fragment flag was set."

::= { ip 18 }

#### ipFragCreates OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagram fragments that have been generated as a result of fragmentation at this entity."

::= { ip 19 }

-- the IP address table  
  
-- The IP address table contains this entity's IP addressing  
-- information.

ipAddrTable OBJECT-TYPE  
SYNTAX SEQUENCE OF IpAddrEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The table of addressing information relevant to  
    this entity's IP addresses."  
::= { ip 20 }

ipAddrEntry OBJECT-TYPE  
SYNTAX IpAddrEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The addressing information for one of this  
    entity's IP addresses."  
INDEX { ipAdEntAddr }  
::=  
{ ipAddrTable 1 }

IpAddrEntry ::=  
SEQUENCE {  
    ipAdEntAddr  
        IpAddress,  
    ipAdEntIfIndex  
        INTEGER,  
    ipAdEntNetMask  
        IpAddress,  
    ipAdEntBcastAddr  
        INTEGER,  
    ipAdEntReasmMaxSize  
        INTEGER (0..65535)  
}

ipAdEntAddr OBJECT-TYPE  
SYNTAX IpAddress  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The IP address to which this entry's addressing  
    information pertains."  
::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The index value which uniquely identifies the interface to which this entry is applicable. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE

SYNTAX IPAddress

ACCESS

read-only

STATUS mandatory

DESCRIPTION

"The subnet mask associated with the IP address of this entry. The value of the mask is an IP address with all the network bits set to 1 and all the hosts bits set to 0."

::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The value of the least-significant bit in the IP broadcast address used for sending datagrams on the (logical) interface associated with the IP address of this entry. For example, when the Internet standard all-ones broadcast address is used, the value will be 1. This value applies to both the subnet and network broadcasts addresses used by the entity on this (logical) interface."

::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The size of the largest IP datagram which this entity can re-assemble from incoming IP fragmented datagrams received on this interface."

```
::= { ipAddrEntry 5 }

-- the IP routing table

-- The IP routing table contains an entry for each route
-- presently known to this entity.
```

```
ipRouteTable OBJECT-TYPE
    SYNTAX SEQUENCE OF IpRouteEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "This entity's IP Routing table."
    ::= { ip 21 }
```

```
ipRouteEntry OBJECT-TYPE
    SYNTAX IpRouteEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "A route to a particular destination."
    INDEX { ipRouteDest }
    ::= { ipRouteTable 1 }
```

```
IpRouteEntry ::=
    SEQUENCE {
        ipRouteDest
            IpAddress,
        ipRouteIfIndex
            INTEGER,
        ipRouteMetric1
            INTEGER,
        ipRouteMetric2
            INTEGER,
        ipRouteMetric3
            INTEGER,
        ipRouteMetric4
            INTEGER,
        ipRouteNextHop
            IpAddress,
        ipRouteType
            INTEGER,
        ipRouteProto
            INTEGER,
        ipRouteAge
            INTEGER,
        ipRouteMask
            IpAddress,
```

```
ipRouteMetric5
  INTEGER,
ipRouteInfo
  OBJECT IDENTIFIER
}
```

ipRouteDest OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The destination IP address of this route. An entry with a value of 0.0.0.0 is considered a default route. Multiple routes to a single destination can appear in the table, but access to such multiple entries is dependent on the table-access mechanisms defined by the network management protocol in use."

::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The index value which uniquely identifies the local interface through which the next hop of this route should be reached. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The primary routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER



ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined

by the

routing-protocol specified in the route's

ipRouteProto value. If this metric is not used,

its value should be set to -1."

::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the

routing-protocol specified in the route's

ipRouteProto value. If this metric is not used,

its value should be set to -1."

::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the

routing-protocol specified in the route's

ipRouteProto value. If this metric is not used,

its value should be set to -1."

::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The IP address of the next hop of this route.

(In the case of a route bound to an interface

which is realized via a broadcast media, the value

of this field is the agent's IP address on that

interface.)"

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

```

SYNTAX INTEGER {
    other(1),    -- none of the following

    invalid(2), -- an invalidated route

                -- route to directly
    direct(3),   -- connected (sub-)network

                -- route to a non-local
    indirect(4) -- host/network/sub-network
}

```

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The type of route. Note that the values direct(3) and indirect(4) refer to the notion of direct and indirect routing in the IP architecture.

Setting this object to the value invalid(2) has the effect of invalidating the corresponding entry in the ipRouteTable object. That is, it effectively disassociates the destination identified with said entry from the route identified with said entry. It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table. Accordingly, management stations must be prepared to receive tabular information from agents that corresponds to entries not currently in use. Proper interpretation of such entries requires examination of the relevant ipRouteType object."

::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE

```

SYNTAX INTEGER {
    other(1),    -- none of the following

                -- non-protocol information,
                -- e.g., manually configured
    local(2),    -- entries

                -- set via a network
    netmgmt(3), -- management protocol

                -- obtained via ICMP,

```

icmp(4), -- e.g., Redirect

-- the remaining values are  
-- all gateway routing  
-- protocols

egp(5),  
ggp(6),  
hello(7),  
rip(8),  
is-is(9),  
es-is(10),  
ciscoIgrp(11),  
bbnSpfIgp(12),  
ospf(13),  
bgp(14)

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The routing mechanism via which this route was learned. Inclusion of values for gateway routing protocols

is not intended to imply that hosts

should support those protocols."

::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The number of seconds since this route was last updated or otherwise determined to be correct.

Note that no semantics of 'too old' can be implied except through knowledge of the routing protocol by which the route was learned."

::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicate the mask to be logical-ANDed with the destination address before being compared to the value in the ipRouteDest field. For those systems that do not support arbitrary subnet masks, an agent constructs the value of the ipRouteMask by

determining whether the value of the correspondent ipRouteDest field belong to a class-A, B, or C network, and then using one of:

```
mask      network
255.0.0.0  class-A
255.255.0.0 class-B
255.255.255.0 class-C
```

If the value of the ipRouteDest is 0.0.0.0 (a default route), then the mask value is also 0.0.0.0. It should be noted that all IP routing subsystems implicitly use this mechanism."

```
::= { ipRouteEntry 11 }
```

ipRouteMetric5 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

```
::= { ipRouteEntry 12 }
```

ipRouteInfo OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A reference to MIB definitions specific to the particular routing protocol which is responsible for this route, as determined by the value specified in the route's ipRouteProto value. If this information is not present, its value should be set to the OBJECT IDENTIFIER { 0 0 }, which is a syntatically valid object identifier, and any conformant implementation of ASN.1 and BER must be able to generate and recognize this value."

```
::= { ipRouteEntry 13 }
```

-- the IP Address Translation table

-- The IP address translation table contain the IpAddress to

-- `physical' address equivalences. Some interfaces do not

-- use translation tables for determining address

-- equivalences (e.g., DDN-X.25 has an algorithmic method);  
-- if all interfaces are of this type, then the Address  
-- Translation table is empty, i.e., has zero  
entries.

ipNetToMediaTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpNetToMediaEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"The IP Address Translation table used for mapping  
from IP addresses to physical addresses."

::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE

SYNTAX IpNetToMediaEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Each entry contains one IpAddress to `physical`  
address equivalence."

INDEX { ipNetToMediaIfIndex,  
ipNetToMediaNetAddress }

::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::=

SEQUENCE {

ipNetToMediaIfIndex

INTEGER,

ipNetToMediaPhysAddress

PhysAddress,

ipNetToMediaNetAddress

IpAddress,

ipNetToMediaType

INTEGER

}

ipNetToMediaIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The interface  
on which this entry's equivalence  
is effective. The interface identified by a  
particular value of this index is the same  
interface as identified by the same value of  
ifIndex."

::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE

SYNTAX PhysAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The media-dependent `physical' address."

::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The IPAddress corresponding to the media-dependent `physical' address."

::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

invalid(2), -- an invalidated mapping

dynamic(3),

static(4)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The type of mapping.

Setting this object to the value invalid(2) has the effect of invalidating the corresponding entry in the ipNetToMediaTable. That is, it effectively disassociates the interface identified with said entry from the mapping identified with said entry.

It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table. Accordingly, management stations must be prepared to receive tabular information from agents that corresponds to entries not currently in use. Proper interpretation of such entries requires examination of the relevant ipNetToMediaType object."

::= { ipNetToMediaEntry 4 }

-- additional IP objects

ipRoutingDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of routing entries which were chosen to be discarded even though they are valid. One possible reason for discarding such an entry could be to free-up buffer space for other routing entries."

::= { ip 23 }

-- the ICMP group

-- Implementation of the ICMP group is mandatory for all systems.

icmpInMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of ICMP messages which the entity received. Note that this counter includes all those counted by icmpInErrors."

::= { icmp 1 }

icmpInErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP messages which the entity received but determined as having ICMP-specific errors (bad ICMP checksums, bad length, etc.)."

::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Destination Unreachable messages received."

::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Time Exceeded messages received."

::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Parameter Problem messages received."

::= { icmp 5 }

icmpInSrcQuenchs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Source Quench messages received."

::= { icmp 6 }

icmpInRedirects OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Redirect messages received."

::= { icmp 7 }

icmpInEchos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Echo (request) messages received."

::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE

SYNTAX Counter



ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Echo Reply messages received."  
::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Timestamp (request) messages  
    received."  
::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Timestamp Reply messages  
    received."  
::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Address Mask Request messages  
    received."  
::= {  
icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Address Mask Reply messages  
    received."  
::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of ICMP messages which this entity attempted to send. Note that this counter includes all those counted by icmpOutErrors."

::= { icmp 14 }

#### icmpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP messages which this entity did not send due to problems discovered within ICMP such as a lack of buffers. This value should not include errors discovered outside the ICMP layer such as the inability of IP to route the resultant datagram. In some implementations there may

be no

types of error which contribute to this counter's value."

::= { icmp 15 }

#### icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Destination Unreachable messages sent."

::= { icmp 16 }

#### icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Time Exceeded messages sent."

::= { icmp 17 }

#### icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Parameter Problem messages sent."

::= { icmp 18 }

#### icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Source Quench messages sent."  
::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS  
mandatory  
DESCRIPTION  
    "The number of ICMP Redirect messages sent. For a  
    host, this object will always be zero, since hosts  
    do not send redirects."  
::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Echo (request) messages sent."  
::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Echo Reply messages sent."  
::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Timestamp (request) messages  
    sent."  
::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of ICMP Timestamp Reply messages sent."

::= {  
icmp 24 }

icmpOutAddrMasks OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Address Mask Request messages sent."

::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Address Mask Reply messages sent."

::= { icmp 26 }

-- the TCP group

-- Implementation of the TCP group is mandatory for all  
-- systems that implement the TCP.

-- Note that instances of object types that represent  
-- information about a particular TCP connection are  
-- transient; they persist only as long as the connection  
-- in question.

tcpRtoAlgorithm OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

constant(2), -- a constant rto

rsre(3), -- MIL-STD-1778, Appendix B

vanj(4) -- Van Jacobson's algorithm [10]

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The algorithm used to determine the timeout value used for retransmitting unacknowledged octets."

::= { tcp 1 }

tcpRtoMin OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The minimum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds. More refined semantics for objects of this type depend upon the algorithm used to determine the retransmission timeout. In particular, when the timeout algorithm is rsre(3), an object of this type has the semantics of the LBOUND quantity described in RFC 793."

::= { tcp 2 }

tcpRtoMax OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The maximum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds. More refined semantics for objects of this type depend upon the algorithm used to determine the retransmission timeout. In particular, when the timeout algorithm is rsre(3), an object of this type has the semantics of the UBOUND quantity described in RFC 793."

::= { tcp 3 }

tcpMaxConn OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The limit on the total number of TCP connections the entity can support. In entities where the maximum number of connections is dynamic, this object should contain the value -1."

::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state."

::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state."

::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the CLOSED state from either the SYN-SENT state or the SYN-RCVD state, plus the number of times TCP connections have made a direct transition to the LISTEN state from the SYN-RCVD state."

::= { tcp 7 }

tcpEstabResets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the CLOSED state from either the

ESTABLISHED state or the CLOSE-WAIT state."

::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of TCP connections for which the current state is either ESTABLISHED or CLOSE-

WAIT."  
::= { tcp 9 }

tcpInSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments received, including  
    those received in error. This count includes  
    segments received on currently established  
    connections."  
::= { tcp 10 }

tcpOutSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments sent, including  
    those on current connections but excluding those  
    containing only retransmitted octets."  
::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments retransmitted - that  
    is, the number of TCP segments transmitted  
    containing one or more previously transmitted  
    octets."  
::= { tcp 12 }

-- the TCP Connection table

-- The TCP connection table contains information about this  
-- entity's existing TCP connections.

tcpConnTable OBJECT-TYPE  
SYNTAX SEQUENCE OF TcpConnEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "A table containing TCP connection-specific  
    information."

::= { tcp 13 }

tcpConnEntry OBJECT-TYPE

SYNTAX TcpConnEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Information about a particular current TCP connection. An object of this type is transient, in that it ceases to exist when (or soon after) the connection makes the transition to the CLOSED state."

INDEX

{ tcpConnLocalAddress,  
tcpConnLocalPort,  
tcpConnRemAddress,  
tcpConnRemPort }

::= { tcpConnTable 1 }

TcpConnEntry ::=

SEQUENCE {

tcpConnState

INTEGER,

tcpConnLocalAddress

IpAddress,

tcpConnLocalPort

INTEGER (0..65535),

tcpConnRemAddress

IpAddress,

tcpConnRemPort

INTEGER (0..65535)

}

tcpConnState OBJECT-TYPE

SYNTAX INTEGER {

closed(1),

listen(2),

synSent(3),

synReceived(4),

established(5),

finWait1(6),

finWait2(7),

closeWait(8),

lastAck(9),

closing(10),

timeWait(11),

deleteTCB(12)

}



ACCESS read-write

STATUS mandatory

DESCRIPTION

"The state of this TCP connection.

The only value which may be set by a management station is deleteTCB(12). Accordingly, it is appropriate for an agent to return a `badValue' response if a management station attempts to set this object to any other value.

If a management station sets this object to the value deleteTCB(12), then this has the effect of deleting the TCB (as defined in RFC 793) of the corresponding connection on the managed node, resulting in immediate termination of the connection.

As an implementation-specific option, a RST segment may be sent from the managed node to the other TCP endpoint (note however that RST segments are not sent reliably)."

::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local IP address for this TCP connection. In

the case of a connection in the listen state which is willing to accept connections for any IP interface associated with the node, the value 0.0.0.0 is used."

::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local port number for this TCP connection."

::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE

SYNTAX IPAddress

```
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The remote IP address for this TCP connection."
::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The remote port number for this TCP connection."
::= { tcpConnEntry 5 }

-- additional TCP objects

tcpInErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The total number
of segments received in error
    (e.g., bad TCP checksums)."
::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The number of TCP segments sent containing the
    RST flag."
::= { tcp 15 }

-- the UDP group

-- Implementation of the UDP group is mandatory for all
-- systems which implement the UDP.

udpInDatagrams OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The total number of UDP datagrams delivered to
```

```

        UDP users."
 ::= { udp 1 }

udpNoPorts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The total number of received UDP datagrams for
        which there was no application at the destination
        port."
 ::= { udp 2 }

udpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

        "The number of received UDP datagrams that could
        not be delivered for reasons other than the lack
        of an application at the destination port."
 ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The total number of UDP datagrams sent from this
        entity."
 ::= { udp 4 }

-- the UDP Listener table

-- The UDP listener table contains information about this
-- entity's UDP end-points on which a local application is
-- currently accepting datagrams.

udpTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UdpEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "A table containing UDP listener information."
 ::= { udp 5 }

```

udpEntry OBJECT-TYPE

SYNTAX UdpEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Information about a particular current UDP listener."

INDEX { udpLocalAddress, udpLocalPort  
}

::= { udpTable 1 }

UdpEntry ::=

SEQUENCE {

udpLocalAddress

IpAddress,

udpLocalPort

INTEGER (0..65535)

}

udpLocalAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local IP address for this UDP listener. In the case of a UDP listener which is willing to accept datagrams for any IP interface associated with the node, the value 0.0.0.0 is used."

::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local port number for this UDP listener."

::= { udpEntry 2 }

-- the EGP group

-- Implementation of the EGP group is mandatory for all

-- systems which implement the EGP.

egpInMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of EGP messages received without error."

::= { egp 1 }

egpInErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of EGP messages received that proved to be in error."

::= { egp 2 }

egpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of locally generated EGP messages."

::= { egp 3 }

egpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of locally generated EGP messages not sent due to resource limitations within an EGP entity."

::= { egp 4 }

-- the EGP Neighbor table

-- The EGP neighbor table contains information about this  
-- entity's EGP neighbors.

egpNeighTable OBJECT-TYPE

SYNTAX SEQUENCE OF EgpNeighEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"The EGP neighbor table."

::= { egp 5 }

egpNeighEntry OBJECT-TYPE

SYNTAX EgpNeighEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "Information about this entity's relationship with  
    a particular EGP neighbor."  
INDEX { egpNeighAddr }  
::= { egpNeighTable 1 }

EgpNeighEntry ::=

```
SEQUENCE {
    egpNeighState
        INTEGER,
    egpNeighAddr
        IpAddress,
    egpNeighAs
        INTEGER,
    egpNeighInMsgs
        Counter,
    egpNeighInErrs
        Counter,
    egpNeighOutMsgs
        Counter,
    egpNeighOutErrs
        Counter,
    egpNeighInErrMsgs
        Counter,
    egpNeighOutErrMsgs
        Counter,
    egpNeighStateUps
        Counter,
    egpNeighStateDowns
        Counter,
    egpNeighIntervalHello
        INTEGER,
    egpNeighIntervalPoll
        INTEGER,
    egpNeighMode
        INTEGER,
    egpNeighEventTrigger

    INTEGER
}
```

egpNeighState OBJECT-TYPE  
SYNTAX INTEGER {  
    idle(1),  
    acquisition(2),

```
        down(3),
        up(4),
        cease(5)
    }
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The EGP state of the local system with respect to
    this entry's EGP neighbor. Each EGP state is
    represented by a value that is one greater than
    the numerical value associated with said state in
    RFC 904."
::= { egpNeighEntry 1 }
```

egpNeighAddr OBJECT-TYPE

```
SYNTAX IPAddress
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The IP address of this entry's EGP neighbor."
::= { egpNeighEntry 2 }
```

egpNeighAs OBJECT-TYPE

```
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The autonomous system of this EGP peer. Zero
    should be specified if the autonomous system
    number
of the neighbor is not yet known."
::= { egpNeighEntry 3 }
```

egpNeighInMsgs OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The number of EGP messages received without error
    from this EGP peer."
::= { egpNeighEntry 4 }
```

egpNeighInErrs OBJECT-TYPE

```
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
    "The number of EGP messages received from this EGP
```

peer that proved to be in error (e.g., bad EGP checksum)."  
::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of locally generated EGP messages to this EGP peer."  
::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of locally generated EGP messages not sent to this EGP peer due to resource limitations within an EGP entity."  
::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of EGP-defined error messages received from this EGP peer."  
::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of EGP-defined error messages sent to this EGP peer."  
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of EGP state transitions to the UP



state with this EGP peer."  
::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP state transitions from the UP  
    state to any  
other state with this EGP peer."  
::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The interval between EGP Hello command  
    retransmissions (in hundredths of a second). This  
    represents the t1 timer as defined in RFC 904."  
::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The interval between EGP poll command  
    retransmissions (in hundredths of a second). This  
    represents the t3 timer as defined in RFC 904."  
::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE

SYNTAX INTEGER { active(1), passive(2) }  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The polling mode of this EGP entity, either  
    passive or active."  
::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE

SYNTAX INTEGER  
{ start(1), stop(2) }  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION

"A control variable used to trigger operator-initiated Start and Stop events. When read, this variable always returns the most recent value that egpNeighEventTrigger was set to. If it has not been set since the last initialization of the network management subsystem on the node, it returns a value of `stop`.

When set, this variable causes a Start or Stop event on the specified neighbor, as specified on pages 8-10 of RFC 904. Briefly, a Start event causes an Idle peer to begin neighbor acquisition and a non-Idle peer to reinitiate neighbor acquisition. A stop event causes a non-Idle peer to return to the Idle state until a Start event occurs, either via egpNeighEventTrigger or otherwise."

```
::= { egpNeighEntry  
15 }
```

-- additional EGP objects

```
egpAs OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION
```

"The autonomous system number of this EGP entity."

```
::= { egp 6 }
```

-- the Transmission group

-- Based on the transmission media underlying each interface  
-- on a system, the corresponding portion of the Transmission  
-- group is mandatory for that system.

-- When Internet-standard definitions for managing  
-- transmission media are defined, the transmission group is  
-- used to provide a prefix for the names of those objects.

-- Typically, such definitions reside in the experimental  
-- portion of the MIB until they are "proven", then as a  
-- part of the Internet standardization process, the  
-- definitions are accordingly elevated and a new object  
-- identifier, under the transmission group is defined. By  
-- convention, the name assigned is:

--

```
-- type OBJECT IDENTIFIER ::= { transmission number }
--
-- where "type" is the symbolic
value used for the media in
-- the ifType column of the ifTable object, and "number" is
-- the actual integer value corresponding to the symbol.
```

```
-- the SNMP group
```

```
-- Implementation of the SNMP group is mandatory for all
-- systems which support an SNMP protocol entity. Some of
-- the objects defined below will be zero-valued in those
-- SNMP implementations that are optimized to support only
-- those functions specific to either a management agent or
-- a management station. In particular, it should be
-- observed that the objects below refer to an SNMP entity,
-- and there may be several SNMP entities residing on a
-- managed node (e.g., if the node is hosting acting as
-- a management station).
```

```
snmpInPkts OBJECT-TYPE
```

```
SYNTAX Counter
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The total number of Messages delivered to the
    SNMP entity from the transport service."
```

```
::= { snmp 1 }
```

```
snmpOutPkts OBJECT-TYPE
```

```
SYNTAX Counter
```

```
ACCESS
```

```
read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The total number of SNMP Messages which were
    passed from the SNMP protocol entity to the
    transport service."
```

```
::= { snmp 2 }
```

```
snmpInBadVersions OBJECT-TYPE
```

```
SYNTAX Counter
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
    "The total number of SNMP Messages which were
    delivered to the SNMP protocol entity and were for
```

an unsupported SNMP version."  
 ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Messages delivered to  
the SNMP protocol entity which used a SNMP  
community name not known to said entity."  
 ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Messages delivered to  
  
the SNMP protocol entity which represented an SNMP  
operation which was not allowed by the SNMP  
community named in the Message."  
 ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of ASN.1 or BER errors  
encountered by the SNMP protocol entity when  
decoding received SNMP Messages."  
 ::= { snmp 6 }

-- { snmp 7 } is not used

snmpInTooBigs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP PDUs which were  
delivered to the SNMP protocol entity and for  
which the value of the error-status field is  
'tooBig'.  
 ::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the

SNMP protocol entity and for

which the value of the error-status field is

`noSuchName'."

::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for

which the value of the error-status field is

`badValue'."

::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number valid SNMP PDUs which were delivered to the SNMP protocol entity and for

which the value of the error-status field is

`readOnly'. It should be noted that it is a

protocol error to generate an SNMP PDU which

contains the value `readOnly' in the error-status

field, as such this object is provided as a means

of detecting

incorrect implementations of the

SNMP."

::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for

which the value of the error-status field is

`genErr'.  
 ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs."

::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs."

::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP Set-Request PDUs which  
    have been accepted and processed by the SNMP  
    protocol entity."  
::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP Get-Response PDUs which  
    have been accepted and processed by the SNMP  
    protocol entity."  
::= { snmp 18 }

snmpInTraps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP Trap PDUs which have  
    been accepted and processed by the SNMP protocol  
    entity."  
::= { snmp 19 }

snmpOutTooBig OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP PDUs which were  
    generated by the SNMP protocol entity and for  
    which the value of the error-status field is  
    `tooBig`."  
::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP PDUs which were  
    generated by the SNMP protocol entity and for  
    which the value of the error-status is  
    `noSuchName`."

::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is

`badValue'."

::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is

`genErr'."

::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity."

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory



DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity."

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicates whether the SNMP agent process is permitted to generate authentication-failure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authentication-failure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant between re-initializations of the network management system."

::= { snmp 30 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB

No license file was found, but licenses were detected in source scan.

DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS

DisplayString, RowStatus,  
RowPointer, TruthValue,  
TEXTUAL-CONVENTION FROM SNMPv2-TC  
Counter32, Gauge32, TimeTicks,  
OBJECT-TYPE, MODULE-IDENTITY,  
NOTIFICATION-TYPE, mib-2 FROM SNMPv2-SMI  
MODULE-COMPLIANCE, OBJECT-GROUP,  
NOTIFICATION-GROUP FROM SNMPv2-CONF  
ifIndex FROM IF-MIB  
sdlcLSAddress FROM SNA-SDLC-MIB;

dlsW MODULE-IDENTITY

LAST-UPDATED "9606040900Z"  
ORGANIZATION "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"  
CONTACT-INFO  
"David D. Chen  
IBM Corporation  
800 Park, Highway 54  
Research Triangle Park, NC 27709-9990  
Tel: 1 919 254 6182  
E-mail: dchen@vnet.ibm.com"

DESCRIPTION

"This MIB module contains objects to manage Data Link  
Switches."

::= { mib-2 46 }

dlsW MIB OBJECT IDENTIFIER ::= { dlsW 1 }  
dlsW Domains OBJECT IDENTIFIER ::= { dlsW 2 }

-- \*\*\*\*\*  
-- Textual convention definitions  
-- \*\*\*\*\*

NBName ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Represents a single qualified NetBIOS name, which can include  
'don't care' and 'wildcard' characters to represent a number  
of real NetBIOS names. If an individual character position in  
the qualified name contains a '?', the corresponding character  
position in a real NetBIOS name is a 'don't care'. If the  
qualified name ends in '\*', the remainder of a real NetBIOS  
name is a 'don't care'. '\*' is only considered a wildcard if it  
appears at the end of a name."

SYNTAX OCTET STRING (SIZE  
(0..16))

MacAddressNC ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1x:"

STATUS current

DESCRIPTION

"Represents an 802 MAC address represented in non-canonical format. That is, the most significant bit will be transmitted first. If this information is not available, the value is a zero length string."

SYNTAX OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Denotes a transport service address.

For dlswTCPDomain, a TAddress is 4 octets long, containing the IP-address in network-byte order."

SYNTAX OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the location of an end station related to the managed DLSw node."

SYNTAX INTEGER {

other (1),

internal (2), -- local virtual MAC address

remote (3), -- via

DLSw partner

local (4) -- locally attached

}

DlcType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the type of DLC of an end station, if applicable."

SYNTAX INTEGER {

other (1), -- not assigned yet

na (2), -- not applicable

llc (3), -- 802.2 Logical Link Control

sdlc (4), -- SDLC

qllc (5) -- QLLC

}

LFSize ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The largest size of the INFO field (including DLC header, not including any MAC-level or framing octets).

64 valid values as defined by the IEEE 802.1D

Addendum are acceptable."

SYNTAX INTEGER {

lfs516(516), lfs635(635), lfs754(754), lfs873(873),

lfs993(993), lfs1112(1112), lfs1231(1231),

lfs1350(1350), lfs1470(1470),

lfs1542(1542),

lfs1615(1615), lfs1688(1688), lfs1761(1761),

lfs1833(1833), lfs1906(1906), lfs1979(1979),

lfs2052(2052), lfs2345(2345), lfs2638(2638),

lfs2932(2932), lfs3225(3225), lfs3518(3518),

lfs3812(3812), lfs4105(4105), lfs4399(4399),

lfs4865(4865), lfs5331(5331), lfs5798(5798),

lfs6264(6264), lfs6730(6730), lfs7197(7197),

lfs7663(7663), lfs8130(8130), lfs8539(8539),

lfs8949(8949), lfs9358(9358), lfs9768(9768),

lfs10178(10178), lfs10587(10587), lfs10997(10997),

lfs11407(11407), lfs12199(12199), lfs12992(12992),

lfs13785(13785), lfs14578(14578), lfs15370(15370),

lfs16163(16163), lfs16956(16956), lfs17749(17749),

lfs20730(20730), lfs23711(23711), lfs26693(26693),

lfs29674(29674), lfs32655(32655), lfs38618(38618),

lfs41600(41600), lfs44591(44591),

lfs47583(47583),

lfs50575(50575), lfs53567(53567), lfs56559(56559),

lfs59551(59551), lfs65535(65535)

}

null OBJECT IDENTIFIER ::= { 0 0 }

-- \*\*\*\*\*

-- DLSw Transport Domain definitions

-- \*\*\*\*\*

-- DLSw over TCP

dlswTCPDomain OBJECT IDENTIFIER ::= { dlswDomains 1 }

-- for an IP address of length 4:

--

-- octets contents encoding

-- 1-4 IP-address network-byte order

--

DlswTCPAddress ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1d.1d.1d.1d"

```

STATUS    current
DESCRIPTION
    "Represents the IP address of a DLSw which uses
    TCP as a transport protocol."
SYNTAX    OCTET STRING (SIZE (4))

```

```

-- *****
-- DLSw MIB Definition
-- *****

```

```

-- The
DLSw MIB module contains an object part and a conformance part.
-- Object part is organized in the following groups:
-- (1) dlswNode    - information about this DLSw
-- (2) dlswTConn   - about adjacent DLSw partners
-- (3) dlswInterface - about which interfaces DLSw is active on
-- (4) dlswDirectory - about any directory of local/remote resources
-- (5) dlswCircuit - about established circuits.
-- (6) dlswSdlc    - about SDLC data link switched devices

```

```

dlswNode    OBJECT IDENTIFIER ::= { dlswMIB 1 }
dlswTConn   OBJECT IDENTIFIER ::= { dlswMIB 2 }
dlswInterface OBJECT IDENTIFIER ::= { dlswMIB 3 }
dlswDirectory OBJECT IDENTIFIER ::= { dlswMIB 4 }
dlswCircuit OBJECT IDENTIFIER ::= { dlswMIB 5 }
dlswSdlc    OBJECT IDENTIFIER ::= { dlswMIB 6 } -- SDLC

```

```

-- *****
-- THE NODE GROUP
-- *****

```

```

-----
--
DLSw Node Identity
-----

```

```

dlswNodeVersion OBJECT-TYPE
SYNTAX    OCTET STRING (SIZE (2))
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
    "This value identifies the particular version of the DLSw
    standard supported by this DLSw. The first octet is a
    hexadecimal value representing the DLSw standard Version
    number of this DLSw, and the second is a hexadecimal value
    representing the DLSw standard Release number. This
    information is reported in DLSw Capabilities Exchange."
REFERENCE

```

"DLSW: Switch-to-Switch Protocol RFC 1795"  
::= { dlswNode 1 }

dlswNodeVendorID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (3))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the manufacturer's IEEE-assigned  
organizationally Unique Identifier (OUI) of this DLSw.

This information

is reported in DLSw Capabilities

Exchange."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswNode 2 }

dlswNodeVersionString OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This string gives product-specific information about  
this DLSw (e.g., product name, code release and fix level).

This flows in Capabilities Exchange messages."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswNode 3 }

-----  
-- DLSw Code Capability  
-----

dlswNodeStdPacingSupport OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- does not support DLSw

-- Standard pacing scheme

adaptiveRcvWindow (2), -- the receive window size

-- varies

fixedRcvWindow

(3) -- the receive window size

-- remains constant

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Circuit pacing, as defined in the DLSw Standard, allows each

of the two DLSw nodes on a circuit to control the amount

of data the other is permitted to send to them. This object

reflects the level of support the DLSw node has for this protocol. (1) means the node has no support for the standard circuit pacing flows; it may use RFC 1434+ methods only, or a proprietary flow control scheme. (2) means the node supports the standard scheme and can vary the window sizes it grants as a data receiver. (3) means the node supports the standard scheme but never varies its receive window size."

```
::= { dlswnode 4 }
```

```
-----  
-- DLSw Node Operational Objects  
-----
```

```
dlswnodeStatus
```

```
OBJECT-TYPE
```

```
SYNTAX INTEGER {
```

```
    active (1),
```

```
    inactive (2)
```

```
}
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

"The status of the DLSw part of the system. Changing the value from active to inactive causes DLSw to take the following actions - (1) it disconnects all circuits through all DLSw partners, (2) it disconnects all transport connections to all DLSw partners, (3) it disconnects all local DLC connections, and (4) it stops processing all DLC connection set-up traffic.

Since these are destructive actions, the user should query the circuit and transport connection tables in advance to understand the effect this action will have.

Changing the value from inactive to active causes DLSw to come up in its initial state, i.e., transport connections established and ready to bring up circuits."

```
::= { dlswnode 5 }
```

```
dlswnodeUpTime OBJECT-TYPE
```

```
SYNTAX TimeTicks
```

```
UNITS "hundredths of a second"
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The amount of time (in hundredths of a second) since the DLSw portion of the system was last re-initialized.

That is, if dlswnodeStatus is in the active state, the time the dlswnodeStatus entered the active state.

It will remain zero if dlswnodeStatus is in the inactive state."

```
::= { dlswnode 6 }
```

dlswnodeVirtualSegmentLFSize OBJECT-TYPE

SYNTAX LFSize

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The largest frame size (including DLC header and info field but not any MAC-level or framing octets) this DLSw can forward on any path through itself. This object can represent any box-level frame size forwarding restriction (e.g., from the use of fixed-size buffers). Some DLSw implementations will have no such restriction.

This value will affect the LF size of circuits during circuit creation. The LF size of an existing circuit can be found in the RIF (Routing Information Field)."

DEFVAL { lfs65535 }

```
::= { dlswnode 7 }
```

```
-- .....  
-- NETBIOS Resources  
-- .....
```

dlswnodeResourceNBExclusivity OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value of true indicates that the NetBIOS Names configured in dlswnodeDirNBTable are the only ones accessible via this DLSw.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action.

It is up to the implementation exactly when to start the run-time capabilities exchange."

```
::= { dlswnode 8 }
```

```
-- .....  
--  
-- MAC Address List  
-- .....
```

dlswnodeResourceMacExclusivity OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current



DESCRIPTION

"The value of true indicates that the MAC addresses configured in the dlswDirMacTable are the only ones accessible via this DLSw.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action.

It is up to the implementation exactly when to start the run-time capabilities exchange."

::= { dlswNode 9 }

-- \*\*\*\*\*  
-- TRANSPORT CONNECTION (aka: PARTNER DLSW)  
-- \*\*\*\*\*

-----

-- Transport Connection Statistics Objects

-----

dlswTConnStat

OBJECT IDENTIFIER ::= { dlswTConn 1 }

dlswTConnStatActiveConnections OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of transport connections that are not in `disconnected' state."

::= { dlswTConnStat 1 }

dlswTConnStatCloseIdles OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times transport connections in this node exited the connected state with zero active circuits on the transport connection."

::= { dlswTConnStat 2 }

dlswTConnStatCloseBusys OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times transport connections in this node

exited the connected state with some non-zero number of active circuits on the transport connection. Normally this means the transport connection failed unexpectedly."  
 ::= { dlswTConnStat 3 }

-----  
-- Transport Connection Configuration Table  
-----

dlswTConnConfigTable OBJECT-TYPE  
SYNTAX SEQUENCE OF DlswTConnConfigEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This table defines the transport connections that will be initiated or accepted by this DLSw. Structure of masks allows wildcard definition for a collection of transport connections by a conceptual row. For a specific transport connection, there may be multiple of conceptual rows match the transport address. The `best' match will be the one to determine the characteristics of the transport connection."  
 ::= { dlswTConn 2 }

dlswTConnConfigEntry OBJECT-TYPE  
SYNTAX DlswTConnConfigEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Each conceptual row defines a collection of transport connections."  
INDEX { dlswTConnConfigIndex }  
 ::= { dlswTConnConfigTable 1 }

DlswTConnConfigEntry ::= SEQUENCE {  
dlswTConnConfigIndex INTEGER,  
dlswTConnConfigTDomain OBJECT IDENTIFIER,  
dlswTConnConfigLocalTAddr TAddress,  
dlswTConnConfigRemoteTAddr TAddress,  
dlswTConnConfigLastModifyTime TimeTicks,  
dlswTConnConfigEntryType INTEGER,  
dlswTConnConfigGroupDefinition RowPointer,  
dlswTConnConfigSetupType INTEGER,  
dlswTConnConfigSapList OCTET STRING,  
dlswTConnConfigAdvertiseMacNB TruthValue,  
dlswTConnConfigInitCirRecvWdw INTEGER,  
dlswTConnConfigOpens Counter32,

dlsWTConnConfigRowStatus      RowStatus  
}

dlsWTConnConfigIndex OBJECT-TYPE  
SYNTAX    INTEGER (0..2147483647)  
MAX-ACCESS  
not-accessible  
STATUS    current  
DESCRIPTION  
    "The index to the conceptual row of the table.  
    Negative numbers are not allowed. There  
    are objects defined that point to conceptual  
    rows of this table with this index value.  
    Zero is used to denote that no corresponding  
    row exists.  
  
    Index values are assigned by the agent, and  
    should not be reused but should continue to  
    increase in value."  
::= { dlsWTConnConfigEntry 1 }

dlsWTConnConfigTDomain OBJECT-TYPE  
SYNTAX    OBJECT IDENTIFIER  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION  
    "The object identifier which indicates the transport  
    domain of this conceptual row."  
::= { dlsWTConnConfigEntry 2 }

dlsWTConnConfigLocalTAddr OBJECT-TYPE  
SYNTAX    TAddress  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION  
    "The local transport address for this conceptual row  
    of the transport connection  
definition."  
::= { dlsWTConnConfigEntry 3 }

dlsWTConnConfigRemoteTAddr OBJECT-TYPE  
SYNTAX    TAddress  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION  
    "The remote transport address. Together with  
    dlsWTConnConfigEntryType and dlsWTConnConfigGroupDefinition,  
    the object instance of this conceptual row identifies a

collection of the transport connections that will be either initiated by this DLSw or initiated by a partner DLSw and accepted by this DLSw."

::= { dlswTConnConfigEntry 4 }

dlswTConnConfigLastModifyTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time (in hundredths of a second) since the value of any object in this conceptual row except for dlswTConnConfigOpens was last changed. This value may be compared to dlswTConnOperConnectTime to determine whether

values in this row are completely

valid for a transport connection created using this row definition."

::= { dlswTConnConfigEntry 5 }

dlswTConnConfigEntryType OBJECT-TYPE

SYNTAX INTEGER {

individual (1),

global (2),

group (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object instance signifies the type of entry in the associated conceptual row. The value of `individual` means that the entry applies to a specific partner DLSw node as identified by dlswTConnConfigRemoteTAddr and dlswTConnConfigTDomain. The value of `global` means that the entry applies to all partner DLSw nodes of the TDomain. The value of `group` means that the entry applies to a specific set of DLSw nodes in the TDomain. Any group definitions are enterprise-specific and are pointed to by dlswTConnConfigGroupDefinition. In the

cases of

`global` and `group`, the value in dlswTConnConfigRemoteTAddr may not have any significance."

::= { dlswTConnConfigEntry 6 }

dlswTConnConfigGroupDefinition OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"For conceptual rows of `individual' and `global' as specified in `dlsWTConnConfigEntryType`, the instance of this object is `0.0'. For conceptual rows of `group', the instance points to the specific group definition."

::= { `dlsWTConnConfigEntry` 7 }

`dlsWTConnConfigSetupType` OBJECT-TYPE

SYNTAX INTEGER {

other (1),  
activePersistent (2),  
activeOnDemand (3),  
passive (4),  
excluded (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value of the instance of a conceptual row identifies the behavior of the collection of transport

connections that this conceptual row

defines. The value of `activePersistent`, `activeOnDemand` and `passive` means this DLSw will accept any transport connections, initiated by partner DLSw nodes, which are defined by this conceptual row. The value of `activePersistent` means this DLSw will also initiate the transport connections of this conceptual row and retry periodically if necessary. The value of `activeOnDemand` means this DLSw will initiate a transport connection of this conceptual row, if there is a directory cache hits. The value of `other` is implementation specific. The value of `exclude` means that the specified node is not allowed to be a partner to this DLSw node. To take a certain conceptual row definition out of service, a value of `notInService` for `dlsWTConnConfigRowStatus` should be used."

DEFVAL { passive }

::= { `dlsWTConnConfigEntry` 8

}

`dlsWTConnConfigSapList` OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(16))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP list indicates which SAPs are advertised to the transport connection defined by this conceptual row. Only SAPs with even numbers are represented, in the form of the most significant bit of the first octet representing the SAP 0, the next most significant bit representing the SAP 2, to the least significant bit of the last octet representing the SAP 254. Data link switching is allowed for those SAPs which have one in its corresponding bit, not allowed otherwise. The whole SAP list has to be changed together. Changing the SAP list affects only new circuit establishments and has no effect on established circuits.

This list can be used to restrict specific partners from knowing about all the SAPs used by DLSw on all its

interfaces (these are represented in dlswIfSapList for each interface). For instance, one may want to run NetBIOS with some partners but not others.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action.

When to start the run-time capabilities exchange is implementation-specific.

The DEFVAL below indicates support for SAPs 0, 4, 8, and C."

DEFVAL { 'AA0000000000000000000000000000'H }

::= { dlswTConnConfigEntry 9 }

dlswTConnConfigAdvertiseMacNB OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of true indicates that any defined local MAC addresses and NetBIOS names will be advertised to a partner node via initial and (if supported) run-time capabilities exchange messages. The DLSw node should send the appropriate exclusivity control vector to accompany each list it sends, or to represent that the node is explicitly configured to have a null list.

The value of false indicates that the DLSw node should not send a MAC address list or NetBIOS name list, and should also not send their corresponding exclusivity control vectors."

DEFVAL { true }

::= { dlswTConnConfigEntry 10 }

dlswTConnConfigInitCirRecvWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

UNITS "SSP messages"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The initial circuit receive pacing window size, in the unit of SSP messages, to be used for future transport connections activated using this table row. The managed node sends this value as its initial receive pacing window in its initial capabilities exchange message. Changing this value does not affect the initial circuit receive pacing window size of currently active

transport connections. If the standard window pacing scheme is not supported, the value is zero.

A larger receive window value may be appropriate for partners that are reachable only via physical paths that have longer network delays."

DEFVAL { 1 }

::= { dlswTConnConfigEntry 11 }

dlswTConnConfigOpens OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times transport connections entered connected state according to the definition of this conceptual row."

::= { dlswTConnConfigEntry 12 }

dlswTConnConfigRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create or delete the row entry in the dlswTConnConfigTable following the RowStatus textual convention. The value of notInService will be used to take a conceptual row

definition out of use."

::= { dlswTConnConfigEntry 13 }

-----

-- Transport Connection Operation Table

-----

- (1) At most one transport connection can be connected between
- this DLSw and one of its DLSw partners at a given time.
- (2) Multiple transport types are supported.
- (3) Since the entries may be reused, dlswTConnOperEntryTime
- needs to be consulted for the possibility of counter reset.

-----

dlswTConnOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswTConnOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of transport connections. It is optional but desirable for the agent to keep an entry for some period of time after the transport connection is disconnected. This allows the manager to capture additional useful information about the connection, in particular, statistical information and the cause of the disconnection."

::= { dlswTConn 3 }

dlswTConnOperEntry OBJECT-TYPE

SYNTAX DlswTConnOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }

::= { dlswTConnOperTable 1 }

DlswTConnOperEntry ::= SEQUENCE {

dlswTConnOperTDomain OBJECT IDENTIFIER,

dlswTConnOperLocalTAddr TAddress,

dlswTConnOperRemoteTAddr TAddress,

dlswTConnOperEntryTime TimeTicks,

dlswTConnOperConnectTime TimeTicks,

dlswTConnOperState INTEGER,

dlswTConnOperConfigIndex INTEGER,

dlswTConnOperFlowCntlMode INTEGER,

dlswTConnOperPartnerVersion OCTET STRING,

dlswTConnOperPartnerVendorID OCTET STRING,

dlswTConnOperPartnerVersionStr

DisplayString,

dlswTConnOperPartnerInitPacingWdw INTEGER,



|                             |               |
|-----------------------------|---------------|
| dlswTConnOperPartnerSapList | OCTET STRING, |
| dlswTConnOperPartnerNBExcl  | TruthValue,   |
| dlswTConnOperPartnerMacExcl | TruthValue,   |
| dlswTConnOperPartnerNBInfo  | INTEGER,      |
| dlswTConnOperPartnerMacInfo | INTEGER,      |
|                             |               |
| dlswTConnOperDiscTime       | TimeTicks,    |
| dlswTConnOperDiscReason     | INTEGER,      |
| dlswTConnOperDiscActiveCir  | INTEGER,      |
|                             |               |
| dlswTConnOperInDataPkts     | Counter32,    |
| dlswTConnOperOutDataPkts    | Counter32,    |
| dlswTConnOperInDataOctets   | Counter32,    |
| dlswTConnOperOutDataOctets  | Counter32,    |
|                             |               |
| dlswTConnOperInCntlPkts     | Counter32,    |
| dlswTConnOperOutCntlPkts    | Counter32,    |
|                             |               |
| dlswTConnOperCURExSents     | Counter32,    |
| dlswTConnOperICRexRcvds     | Counter32,    |
| dlswTConnOperCURExRcvds     | Counter32,    |
| dlswTConnOperICRexSents     | Counter32,    |
|                             |               |
| dlswTConnOperNQexSents      | Counter32,    |
| dlswTConnOperNRexRcvds      | Counter32,    |
| dlswTConnOperNQexRcvds      | Counter32,    |
| dlswTConnOperNRexSents      | Counter32,    |
| dlswTConnOperCirCreates     | Counter32,    |
| dlswTConnOperCircuits       | Gauge32       |
| }                           |               |

dlswTConnOperTDomain OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The object identifier indicates the transport domain  
of this transport connection."

::= { dlswTConnOperEntry 1 }

dlswTConnOperLocalTAddr OBJECT-TYPE

SYNTAX TAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The local transport address for this transport connection.

This value could be different from dlswTConnConfigLocalAddr,

if the value of the latter were changed after this transport connection was established."  
::= { dlswTConnOperEntry 2 }

dlswTConnOperRemoteTAddr OBJECT-TYPE  
SYNTAX TAddress  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The remote transport address of this transport connection."  
::= { dlswTConnOperEntry 3 }

dlswTConnOperEntryTime OBJECT-TYPE  
SYNTAX TimeTicks  
UNITS "hundredths of a second"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The amount of time (in hundredths of a second) since this transport connection conceptual row was created."  
::= { dlswTConnOperEntry 4 }

-- .....  
-- DLSw Transport Connection Operational Objects  
-- .....

dlswTConnOperConnectTime OBJECT-TYPE  
SYNTAX TimeTicks  
UNITS "hundredths of a second"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The amount of time (in hundredths of a second) since this transport connection last entered the 'connected' state. A value of zero means this transport connection has never been established."  
::= { dlswTConnOperEntry 5 }

dlswTConnOperState OBJECT-TYPE  
SYNTAX INTEGER {  
connecting (1),  
initCapExchange (2),  
connected (3),  
quiescing (4),  
disconnecting (5),  
disconnected (6)

```
}  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"The state of this transport connection. The transport connection enters `connecting' state when DLSw makes a connection request to the transport layer. Once initial Capabilities Exchange is sent, the transport connection enters `initCapExchange' state. When partner capabilities have been determined and the transport connection is ready for sending CanUReach (CUR) messages, it moves

to the `connected' state. When DLSw is in the process of bringing down the connection, it is in the `disconnecting' state. When the transport layer indicates one of its connections is disconnected, the transport connection moves to the `disconnected' state.

Whereas all of the values will be returned in response to a management protocol retrieval operation, only two values may be specified in a management protocol set operation: `quiescing' and `disconnecting'. Changing the value to `quiescing' prevents new circuits from being established, and will cause a transport disconnect when the last circuit on the connection goes away. Changing the value to `disconnecting' will force off all circuits immediately and bring the connection to `disconnected' state."

```
::= { dlswTConnOperEntry 6 }
```

```
dlswTConnOperConfigIndex OBJECT-TYPE  
SYNTAX INTEGER (0..2147483647)  
MAX-ACCESS  
read-only  
STATUS current  
DESCRIPTION
```

"The value of dlswTConnConfigIndex of the dlswTConnConfigEntry that governs the configuration information used by this dlswTConnOperEntry. The manager can therefore normally examine both configured and operational information for this transport connection.

This value is zero if the corresponding dlswTConnConfigEntry was deleted after the creation of this dlswTConnOperEntry. If some fields in the former were changed but the conceptual row was not deleted, some configuration information may not be valid for this operational transport connection. The manager can compare dlswTConnOperConnectTime and

```

    dlswTConnConfigLastModifyTime to determine if this condition
    exists."
 ::= { dlswTConnOperEntry 7 }

-- .....
-- Transport Connection Characteristics
-- .....

dlswTConnOperFlowCntlMode
OBJECT-TYPE
SYNTAX  INTEGER {
    undetermined  (1),
    pacing        (2), -- DLSw standard flow control
    other         (3) -- non-DLSw standard flow control
}
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
"The flow control mechanism in use on this transport connection.
This value is undetermined (1) before the mode of flow control
can be established on a new transport connection (i.e., after
CapEx is sent but before Capex or other SSP control messages
have been received). Pacing (2) indicates that the standard
RFC 1795 pacing mechanism is in use. Other (3) may be either
the RFC 1434+ xBusy mechanism operating to a back-level DLSw,
or a vendor-specific flow control method. Whether it is xBusy
or not can be inferred from dlswTConnOperPartnerVersion."
 ::= { dlswTConnOperEntry 8 }

```

```

--
.....

dlswTConnOperPartnerVersion OBJECT-TYPE
SYNTAX  OCTET STRING (SIZE (0 | 2))
MAX-ACCESS read-only
STATUS   current
DESCRIPTION
"This value identifies which version (first octet) and release
(second octet) of the DLSw standard is supported by this
partner DLSw. This information is obtained from a DLSw
capabilities exchange message received from the partner DLSw.
A string of zero length is returned before a Capabilities
Exchange message is received, or if one is never received.
A conceptual row with a dlswTConnOperState of `connected' but
a zero length partner version indicates that the partner is
a non-standard DLSw partner.

```

If an implementation chooses to keep dlswTConnOperEntrys in

the `disconnected' state, this value should remain unchanged."

#### REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswTConnOperEntry 9 }

dlswTConnOperPartnerVendorID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 3))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This value identifies the IEEE-assigned organizationally Unique Identifier (OUI) of the maker of this partner DLSw. This information is obtained from a DLSw capabilities exchange message received from the partner DLSw. A string of zero length is returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 10 }

dlswTConnOperPartnerVersionStr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..253))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This value identifies the particular product version (e.g., product name, code level, fix level) of this partner DLSw. The format of the actual version string is vendor-specific. This information is obtained from a DLSw capabilities exchange message received from the partner DLSw. A string of zero length is returned before a Capabilities Exchange message is received, if one is never received, or if one is received but it does not contain a version string. If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

#### REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswTConnOperEntry 11 }

dlswTConnOperPartnerInitPacingWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of the partner initial receive pacing window. This

is our initial send pacing window for all new circuits on this transport connection, as modified and granted by the first flow control indication the partner sends on each circuit. This information is obtained from a DLSw capabilities exchange message received from the partner DLSw. A value of zero is returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntrys in the 'disconnected' state, this value should remain unchanged."

#### REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"  
 ::= { dlswTConnOperEntry 12 }

-- .....

#### dlswTConnOperPartnerSapList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 16))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The Supported SAP List received in the capabilities exchange message from the partner DLSw. This list has the same format described for dlswTConnConfigSapList. A string of zero length is returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntrys in the 'disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 13 }

#### dlswTConnOperPartnerNBExcl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of true signifies that the NetBIOS names received from this partner in the NetBIOS name list in its capabilities exchange message are the only NetBIOS names reachable by that partner. 'False' indicates that other NetBIOS names may be reachable. 'False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a NB Name Exclusivity CV.

If an implementation chooses to keep dlswTConnOperEntrys in the 'disconnected' state, this value should remain

unchanged."

```
::= { dlsWTConnOperEntry 14 }
```

dlsWTConnOperPartnerMacExcl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of true signifies that the MAC addresses received from this partner in the MAC address list in its capabilities exchange message are the only MAC addresses reachable by that partner. `False' indicates that other MAC addresses may be reachable. `False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a MAC Address Exclusivity CV.

If an implementation chooses to keep dlsWTConnOperEntry in the `disconnected' state, this value should remain unchanged."

```
::= { dlsWTConnOperEntry 15 }
```

dlsWTConnOperPartnerNBInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept

partial (2), -- partial list is kept

complete (3), -- complete list is kept

notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DSLw whether to keep either none, some, or all of the NetBIOS name list that was received in the capabilities exchange message sent by this partner DLSw. This object identifies how much information was kept by this DLSw. These names are stored as userConfigured remote entries in dlsWDirNBTable.

A value of (4), notApplicable, should be returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlsWTConnOperEntry in the `disconnected' state, this value should remain unchanged."

```
::= { dlsWTConnOperEntry 16 }
```

dlsWTConnOperPartnerMacInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept

partial (2), -- partial list is kept

```

    complete    (3), -- complete list is kept
    notApplicable (4)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "It is up to this DLSw whether to keep either none, some,
    or all of the MAC address list that was received in the
    capabilities exchange message sent by this partner DLSw.
    This object identifies how much information was kept by
    this DLSw. These names are stored as userConfigured
    remote entries in dlswDirMACTable.
    A value of (4), notApplicable, should be returned before
    a Capabilities Exchange message is received, or if one is
    never received.

    If an implementation chooses to keep dlswTConnOperEntry in
    the `disconnected' state, this value should remain unchanged."
 ::= { dlswTConnOperEntry 17 }

-- .....
-- Information about the last disconnect of this transport connection.
-- These objects
-- make sense only for implementations that keep
-- transport connection information around after disconnection.
-- .....
dlswTConnOperDiscTime OBJECT-TYPE
    SYNTAX TimeTicks
    UNITS "hundredths of a second"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The amount of time (in hundredths of a second) since the
        dlswTConnOperState last entered `disconnected' state."
 ::= { dlswTConnOperEntry 18 }

dlswTConnOperDiscReason OBJECT-TYPE
    SYNTAX INTEGER {
        other (1),
        capExFailed (2),
        transportLayerDisc (3),
        operatorCommand (4),
        lastCircuitDiscd (5),
        protocolError (6)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION

```



"This object signifies the reason that either prevented the transport connection from entering the connected state, or caused the transport connection to enter the disconnected state."

::= { dlswTConnOperEntry 19 }

dlswTConnOperDiscActiveCir OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of circuits active (not in DISCONNECTED state) at the time the transport connection was last disconnected. This value is zero if the transport connection has never been connected."

::= { dlswTConnOperEntry 20 }

-- .....  
-- Transport Connection Statistics  
-- (1) Traffic counts  
-- .....

dlswTConnOperInDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection."

::= { dlswTConnOperEntry 21 }

dlswTConnOperOutDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection."

::= { dlswTConnOperEntry 22 }

dlswTConnOperInDataOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "octets"

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection. Each message is counted starting with the first octet following the SSP message header."  
::= { dlswTConnOperEntry 23 }

dlswTConnOperOutDataOctets OBJECT-TYPE  
SYNTAX Counter32  
UNITS "octets"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection. Each message is counted starting with the first octet following the SSP message header."  
::= { dlswTConnOperEntry 24 }

dlswTConnOperInCntlPkts OBJECT-TYPE  
SYNTAX Counter32  
UNITS "SSP messages"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of Switch-to-Switch Protocol (SSP) messages received on this transport connection which were not of type DGRMFRAME, DATAFRAME, or INFOFRAME."  
::= { dlswTConnOperEntry 25 }

dlswTConnOperOutCntlPkts OBJECT-TYPE  
SYNTAX Counter32  
UNITS "SSP messages"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of Switch-to-Switch Protocol (SSP) messages of transmitted on this transport connection which were not of type DGRMFRAME, DATAFRAME,  
or INFOFRAME."  
::= { dlswTConnOperEntry 26 }

-- .....  
-- (2) Directory activities (Explorer messages)  
-- .....

dlswTConnOperCURExSents OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of CanUReach\_ex messages sent on this transport connection."  
 ::= { dlswTConnOperEntry 27 }

dlswTConnOperICRexRcvds OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of ICanReach\_ex messages received on this transport connection."  
 ::= { dlswTConnOperEntry 28 }

dlswTConnOperCURExRcvds OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of CanUReach\_ex messages received on this transport connection."  
 ::= { dlswTConnOperEntry 29 }

dlswTConnOperICRexSents  
OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of ICanReach\_ex messages sent on this transport connection."  
 ::= { dlswTConnOperEntry 30 }

-- .....

dlswTConnOperNQexSents OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NetBIOS\_NQ\_ex (NetBIOS Name Query-explorer) messages sent on this transport connection."  
 ::= { dlswTConnOperEntry 31 }

dlswTConnOperNRexRcvds OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NR\_ex (NetBIOS Name Recognized-explorer)  
messages received on this transport connection."  
 ::= { dlswTConnOperEntry 32 }

dlswTConnOperNQexRcvds OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NQ\_ex messages received on this  
transport connection."  
 ::= { dlswTConnOperEntry 33 }

dlswTConnOperNRexSents OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NR\_ex messages sent on this transport  
connection."  
 ::= { dlswTConnOperEntry 34 }

-- .....  
-- (3) Circuit activities on each transport connection  
-- .....

dlswTConnOperCirCreates OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of times that circuits entered `circuit\_established`  
state (not counting transitions from `circuit\_restart')."  
 ::= { dlswTConnOperEntry 35 }

dlswTConnOperCircuits OBJECT-TYPE  
SYNTAX Gauge32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of currently active circuits on this transport  
connection, where `active' means not in `disconnected' state."  
 ::= { dlswTConnOperEntry 36 }

```

-----
-- Transport Connection Specific
-----
dlsWTCnnSpecific OBJECT IDENTIFIER ::= { dlsWTCnn 4 }
dlsWTCnnTcp    OBJECT IDENTIFIER ::= { dlsWTCnnSpecific 1 }

-- .....
-- TCP Transport Connection Specific - Configuration
-- .....
dlsWTCnnTcpConfigTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF DlsWTCnnTcpConfigEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "This table defines the TCP transport connections that
         will be either initiated by or accepted by this DSLw.
         It augments the entries in dlsWTCnnConfigTable
         whose domain
         is dlsWTCnnDomain."
    ::= { dlsWTCnnTcp 1 }

dlsWTCnnTcpConfigEntry OBJECT-TYPE
    SYNTAX    DlsWTCnnTcpConfigEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "Each conceptual row defines parameters that are
         specific to dlsWTCnnDomain transport connections."
    INDEX    { dlsWTCnnConfigIndex }
    ::= { dlsWTCnnTcpConfigTable 1 }

DlsWTCnnTcpConfigEntry ::= SEQUENCE {
    dlsWTCnnTcpConfigKeepAliveInt    INTEGER,
    dlsWTCnnTcpConfigTcpConnections  INTEGER,
    dlsWTCnnTcpConfigMaxSegmentSize  INTEGER
}

dlsWTCnnTcpConfigKeepAliveInt OBJECT-TYPE
    SYNTAX    INTEGER (0..1800)
    UNITS     "seconds"
    MAX-ACCESS read-create
    STATUS    current
    DESCRIPTION
        "The time in seconds between TCP keepAlive messages when
         no traffic is flowing. Zero signifies no keepAlive protocol.
         Changes take effect only for new TCP connections."
    DEFVAL    { 0 }
    ::= { dlsWTCnnTcpConfigEntry

```

1 }

dlsWTCConnTcpConfigTcpConnections OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is our preferred number of TCP connections within a TCP transport connection. The actual number used is negotiated at capabilities exchange time. Changes take effect only for new transport connections."

DEFVAL { 2 }

::= { dlsWTCConnTcpConfigEntry 2 }

dlsWTCConnTcpConfigMaxSegmentSize OBJECT-TYPE

SYNTAX INTEGER (0..65535)

UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is the number of bytes that this node is willing to receive over the read TCP connection(s). Changes take effect for new transport connections."

DEFVAL { 4096 }

::= { dlsWTCConnTcpConfigEntry 3 }

-- .....  
-- TCP Transport Connection Specific - Operation

dlsWTCConnTcpOperTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DlsWTCConnTcpOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of TCP transport connections. It is optional but desirable for the agent to keep an entry for some period of time after the transport connection is disconnected. This allows the manager to capture additional useful information about the connection, in particular, statistical information and the cause of the disconnection."

::= { dlsWTCConnTcp 2 }

dlsWTCConnTcpOperEntry OBJECT-TYPE

SYNTAX DlsWTCConnTcpOperEntry

MAX-ACCESS not-accessible

```
STATUS current
DESCRIPTION
'''
INDEX { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
::= { dlswTConnTcpOperTable 1 }
```

```
DlswTConnTcpOperEntry ::= SEQUENCE {
  dlswTConnTcpOperKeepAliveInt    INTEGER,
  dlswTConnTcpOperPrefTcpConnections
    INTEGER,
  dlswTConnTcpOperTcpConnections    INTEGER
}
```

dlswTConnTcpOperKeepAliveInt OBJECT-TYPE

SYNTAX INTEGER (0..1800)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time in seconds between TCP keepAlive messages when no traffic is flowing. Zero signifies no keepAlive protocol is operating."

::= { dlswTConnTcpOperEntry 1 }

dlswTConnTcpOperPrefTcpConnections OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is the number of TCP connections preferred by this DLSw partner, as received in its capabilities exchange message."

::= { dlswTConnTcpOperEntry 2 }

dlswTConnTcpOperTcpConnections OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is the actual current number of TCP connections within this transport connection."

::= { dlswTConnTcpOperEntry 3 }

```
-- *****
-- DLSW INTERFACE GROUP
-- *****
```

dlswIfTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswIfEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The list of interfaces on which DLSw is active."  
::= { dlswInterface 1 }

dlswIfEntry OBJECT-TYPE  
SYNTAX DlswIfEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"  
INDEX { ifIndex }  
::= { dlswIfTable 1 }

DlswIfEntry ::= SEQUENCE {  
dlswIfRowStatus RowStatus,  
dlswIfVirtualSegment INTEGER,  
dlswIfSapList OCTET STRING  
}

dlswIfRowStatus OBJECT-TYPE  
SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This object is used by the manager to create  
or delete the row entry in the dlswIfTable  
following the  
RowStatus textual convention."  
::= { dlswIfEntry 1 }

dlswIfVirtualSegment OBJECT-TYPE  
SYNTAX INTEGER (0..4095 | 65535)  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The segment number that uniquely identifies the virtual  
segment to which this DLSw interface is connected.  
Current source routing protocols limit this value to  
the range 0 - 4095. (The value 0 is used by some  
management applications for special test cases.)  
A value of 65535 signifies that no virtual segment  
is assigned to this interface. For instance,  
in a non-source routing environment, segment number  
assignment is not required."  
DEFVAL { 65535 }



```
::= { dlswIfEntry 2 }
```

dlswIfSapList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(16))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP list indicates which SAPs are allowed to be data link switched through this interface.

This list

has the same format described for dlswTConnConfigSapList.

When changes to this object take effect is implementation-specific. Turning off a particular SAP can destroy active circuits that are using that SAP. An agent implementation may reject such changes until there are no active circuits if it so chooses. In this case, it is up to the manager to close the circuits first, using dlswCircuitState.

The DEFVAL below indicates support for SAPs 0, 4, 8, and C."

```
DEFVAL { 'AA0000000000000000000000000000'H }
```

```
::= { dlswIfEntry 3 }
```

```
-- *****
```

```
-- DIRECTORY
```

```
-- Directory services caches the locations of MAC addresses  
-- and NetBIOS names. For resources which are attached via  
-- local interfaces, the ifIndex may be cached, and for  
-- resources which are reachable via a DLSw partner, the  
-- transport address of the DLSw partner is cached.
```

```
--
```

```
*****
```

```
-----
```

```
-- Directory Related Statistical Objects
```

```
-----
```

```
dlswDirStat OBJECT IDENTIFIER ::= { dlswDirectory 1 }
```

dlswDirMacEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current total number of entries in the dlswDirMacTable."

```
::= { dlswDirStat 1 }
```

dlsDirMacCacheHits OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular MAC address resulted in success."

::= { dlsDirStat 2 }

dlsDirMacCacheMisses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular MAC address resulted in failure."

::= { dlsDirStat 3 }

dlsDirMacCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlsDirMacIndex to be assigned by the agent. A retrieval of this object atomically reserves the returned value for use by the manager to create a row in dlsDirMacTable. This makes it possible for the agent to control the index space of the MAC address cache, yet allows the manager to administratively create new rows."

::= { dlsDirStat 4 }

dlsDirNBEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current total number of entries in the dlsDirNBTable."

::= { dlsDirStat 5 }

dlsDirNBCacheHits OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in success."

::= { dlsDirStat 6 }

dlsDirNBCacheMisses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in failure."

::= { dlsDirStat 7 }

dlsDirNBCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlsDirNBIndex to be assigned by the agent. A retrieval of this object atomically reserves the returned value for use by the manager to create a row in dlsDirNBTable. This makes it possible for the agent to control the index space for the NetBIOS name cache, yet allows the manager to administratively create new rows."

::= { dlsDirStat 8 }

-----  
-- Directory Cache  
-----

dlsDirCache

OBJECT IDENTIFIER ::= { dlsDirectory 2 }

-- .....  
-- Directory for MAC Addresses.  
-- All Possible combinations of values of these objects.  
--

| EntryType       | LocationType | Location         | Status                                 |
|-----------------|--------------|------------------|----------------------------------------|
| userConfigured  | local        | ifEntry or 0.0   | reachable, or notReachable, or unknown |
| userConfigured  | remote       | TConnConfigEntry | reachable, or notReachable, or unknown |
| partnerCapExMsg | remote       | TConnOperEntry   | unknown                                |
| dynamic         | local        | ifEntry or 0.0   | reachable                              |
| dynamic         | remote       | TConnOperEntry   | reachable                              |

-----  
dlsDirMacTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DlswDirMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains locations of MAC addresses.  
They could be either verified or not verified,  
local or remote, and configured locally or learned  
from either Capabilities Exchange messages or  
directory searches."

::= { dlswDirCache 1 }

dlswDirMacEntry OBJECT-TYPE

SYNTAX DlswDirMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlswDirMacIndex."

INDEX { dlswDirMacIndex }

::= { dlswDirMacTable 1 }

DlswDirMacEntry ::= SEQUENCE {

dlswDirMacIndex INTEGER,

dlswDirMacMac MacAddressNC,

dlswDirMacMask MacAddressNC,

dlswDirMacEntryType INTEGER,

dlswDirMacLocationType INTEGER,

dlswDirMacLocation RowPointer,

dlswDirMacStatus INTEGER,

dlswDirMacLFSize

LFSize,

dlswDirMacRowStatus RowStatus

}

dlswDirMacIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Uniquely identifies a conceptual row of this table."

::= { dlswDirMacEntry 1 }

dlswDirMacMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address, together with the dlswDirMacMask,

specifies a set of MAC addresses that are defined or discovered through an interface or partner DLSw nodes."  
 ::= { dlsDirMacEntry 2 }

dlsDirMacMask OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address mask, together with the dlsDirMacMac, specifies a set of MAC addresses that are defined or discovered through an interface or partner DLSw nodes."

DEFVAL { 'FFFFFFFFFFFF'H }

::= { dlsDirMacEntry 3 }

dlsDirMacEntryType

OBJECT-TYPE

SYNTAX INTEGER {

other (1),

userConfiguredPublic (2),

userConfiguredPrivate (3),

partnerCapExMsg (4),

dynamic (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line or equivalent methods; (2) learned from the partner DLSw Capabilities Exchange messages; and (3) dynamic, e.g., learned from ICanReach messages, or LAN explorer frames. Since only individual MAC addresses can be dynamically learned, dynamic entries will all have a mask of all FFs.

The public versus private distinction for user-configured resources applies only to local resources (UC remote

resources are private), and indicates

whether that resource should be advertised in capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlsDirMacEntry 4 }

dlsDirMacLocationType OBJECT-TYPE

```
SYNTAX  INTEGER {
    other      (1),
    local      (2),
    remote     (3)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The location of the resource (or a collection of resources using a mask) of this conceptual row is either (1) local - the resource is reachable via an interface, or (2) remote - the resource is reachable via a partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlswDirMacEntry 5 }

dlswDirMacLocation OBJECT-TYPE

```
SYNTAX  RowPointer
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlswTConnConfigEntry, dlswTConnOperEntry, 0.0, or something that is implementation specific. It identifies the location of the MAC address (or the collection of MAC addresses.)"

DEFVAL { null }

::= { dlswDirMacEntry 6 }

dlswDirMacStatus OBJECT-TYPE

```
SYNTAX  INTEGER {
    unknown    (1),
    reachable  (2),
    notReachable (3)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies whether DLSw currently believes the MAC address to be accessible at the specified location. The value `notReachable' allows a configured resource definition to be taken out of service when a search to that resource fails (avoiding a repeat of the search)."

DEFVAL { unknown }

::= { dlswDirMacEntry 7 }

dlswDirMacLFSize OBJECT-TYPE

```
SYNTAX  LFSize
```

```

MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "The largest size of the MAC
INFO field (LLC header and data)
    that a circuit to the MAC address can carry through this path."
DEFVAL { ifs65535 }
::= { dlswDirMacEntry 8 }

```

dlswDirMacRowStatus OBJECT-TYPE

```

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "This object is used by the manager to create
    or delete the row entry in the dlswDirMacTable
    following the RowStatus textual convention."
::= { dlswDirMacEntry 9 }

```

```

-- .....
-- Directory for NetBIOS Names
-- All Possible combinations of values of these objects.
--
-- EntryType LocationType Location Status
-- -----
-- userConfigured local ifEntry or 0.0 reachable, or
-- notReachable, or
-- unknown
-- userConfigured remote TConnConfigEntry
-- reachable, or
-- notReachable, or
-- unknown
-- partnerCapExMsg remote TConnOperEntry unknown
-- dynamic local ifEntry or 0.0 reachable
-- dynamic remote TConnOperEntry reachable
--
-- .....

```

dlswDirNBTable OBJECT-TYPE

```

SYNTAX SEQUENCE OF DlswDirNBEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains locations of NetBIOS names.
    They could be either verified or not verified,
    local or remote, and configured locally or learned
    from either Capabilities Exchange messages or
    directory searches."
::= { dlswDirCache 2 }

```

dlsDirNBEntry OBJECT-TYPE

SYNTAX DlsDirNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlsDirNBIndex."

INDEX {

dlsDirNBIndex }

::= { dlsDirNBTable 1 }

DlsDirNBEntry ::= SEQUENCE {

dlsDirNBIndex INTEGER,

dlsDirNBName NBName,

dlsDirNBNameType INTEGER,

dlsDirNBEntryType INTEGER,

dlsDirNBLocationType INTEGER,

dlsDirNBLocation RowPointer,

dlsDirNBStatus INTEGER,

dlsDirNBLFSize LFSize,

dlsDirNBRowStatus RowStatus

}

dlsDirNBIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Uniquely identifies a conceptual row of this table."

::= { dlsDirNBEntry 1 }

dlsDirNBName OBJECT-TYPE

SYNTAX NBName

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The NetBIOS name (including `any char' and `wildcard' characters) specifies a set of NetBIOS names that are defined or discovered through an interface or partner DLSw nodes."

::= { dlsDirNBEntry

2 }

dlsDirNBNameType OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

individual (2),

group (3)



```
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "Whether dlswDirNBName represents an (or a set of) individual
    or group NetBIOS name(s)."
DEFVAL { unknown }
::= { dlswDirNBEntry 3 }
```

#### dlswDirNBEntryType OBJECT-TYPE

```
SYNTAX INTEGER {
    other          (1),
    userConfiguredPublic (2),
    userConfiguredPrivate (3),
    partnerCapExMsg (4),
    dynamic        (5)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line, or equivalent methods; (2) learned from the partner DLSw Capabilities

Exchange messages;

and (3) dynamic, e.g., learned from ICanReach messages, or test frames. Since only actual NetBIOS names can be dynamically learned, dynamic entries will not contain any char or wildcard characters.

The public versus private distinction for user-configured resources applies only to local resources (UC remote resources are private), and indicates whether that resource should be advertised in capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlswDirNBEntry 4 }

#### dlswDirNBLocationType OBJECT-TYPE

```
SYNTAX INTEGER {
    other          (1),
    local          (2),
    remote         (3)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The location of the resource (or a collection of resources using any char/wildcard characters) of this conceptual row is either

- (1) local - the resource is reachable via an interface, or (2) remote - the resource is reachable via a partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlswDirNBEntry 5 }

dlswDirNBLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlswTConnConfigEntry, dlswTConnOperEntry, 0.0, or something that is implementation specific. It identifies the location of the NetBIOS name or the set of NetBIOS names."

DEFVAL { null }

::= { dlswDirNBEntry 6 }

dlswDirNBStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

reachable (2),

notReachable (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies whether DLSw currently believes the NetBIOS name to be accessible at the specified location.

The value 'notReachable' allows a configured resource definition to be taken out of service when a search to that resource fails (avoiding a repeat of the search)."

DEFVAL { unknown }

::= { dlswDirNBEntry 7 }

dlswDirNBLFSize OBJECT-TYPE

SYNTAX LFSize

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The largest size of the MAC INFO field (LLC header and data) that a circuit to the NB name can carry through this path."

DEFVAL { lfs65535 }

```
::= { dlswDirNBEntry 8 }
```

```
dlswDirNBRowStatus OBJECT-TYPE
```

```
SYNTAX RowStatus
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This object is used by manager to create  
or delete the row entry in the dlswDirNBTable  
following the RowStatus textual convention."
```

```
::= { dlswDirNBEntry 9 }
```

```
-----  
-- Resource Locations  
-----
```

```
dlswDirLocate
```

```
OBJECT IDENTIFIER ::= { dlswDirectory 3 }
```

```
-- .....  
-- Locate Entries in the dlswDirMacTable for a given MAC address  
-- .....
```

```
dlswDirLocateMacTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF DlswDirLocateMacEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This table is used to retrieve all entries in the  
dlswDirMacTable that match a given MAC address,  
in the order of the best matched first, the  
second best matched second, and so on, till  
no more entries match the given MAC address."
```

```
::= { dlswDirLocate 1 }
```

```
dlswDirLocateMacEntry OBJECT-TYPE
```

```
SYNTAX DlswDirLocateMacEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Indexed by dlswDirLocateMacMac and dlswDirLocateMacMatch.
```

```
The first object is the MAC address of interest,
```

```
and
```

```
the second object is the order in the list of all
```

```
entries that match the MAC address."
```

```
INDEX { dlswDirLocateMacMac, dlswDirLocateMacMatch }
```

```
::= { dlswDirLocateMacTable 1 }
```

```
DlswDirLocateMacEntry ::= SEQUENCE {
```

```

dlsDirLocateMacMac      MacAddressNC,
dlsDirLocateMacMatch    INTEGER,
dlsDirLocateMacLocation RowPointer
}

```

dlsDirLocateMacMac OBJECT-TYPE

```

SYNTAX  MacAddressNC
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "The MAC address to be located."
 ::= { dlsDirLocateMacEntry 1 }

```

dlsDirLocateMacMatch OBJECT-TYPE

```

SYNTAX  INTEGER (1..255)
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "The order of the entries of dlsDirMacTable
    that match dlsDirLocateMacMac. A value of
    one represents the entry that best matches the
    MAC address. A value of two represents the second
    best matched entry, and so on."

```

```

 ::= { dlsDirLocateMacEntry 2 }

```

dlsDirLocateMacLocation OBJECT-TYPE

```

SYNTAX  RowPointer
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "Points to the dlsDirMacEntry."
 ::= { dlsDirLocateMacEntry 3 }

```

```

-- .....
-- Locate Entries in the dlsDirNBTable for a given NetBIOS name
-- .....

```

dlsDirLocateNBTable OBJECT-TYPE

```

SYNTAX  SEQUENCE OF DlsDirLocateNBEntry
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "This table is used to retrieve all entries in the
    dlsDirNBTable that match a given NetBIOS name,
    in the order of the best matched first, the
    second best matched second, and so on, till
    no more entries match the given NetBIOS name."

```

```

 ::= { dlsDirLocate 2 }

```

dlsDirLocateNBEntry OBJECT-TYPE

SYNTAX DlsDirLocateNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlsDirLocateNBName and dlsDirLocateNBMatch.

The first object is the NetBIOS name of interest, and  
the second object is the order in the list of all  
entries that match the NetBIOS name."

INDEX { dlsDirLocateNBName, dlsDirLocateNBMatch }

::= { dlsDirLocateNBTable 1 }

DlsDirLocateNBEntry ::= SEQUENCE {

dlsDirLocateNBName NBName,

dlsDirLocateNBMatch INTEGER,

dlsDirLocateNBLocation RowPointer

}

dlsDirLocateNBName OBJECT-TYPE

SYNTAX NBName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The NetBIOS name to be located (no any char or wildcards)."

::= { dlsDirLocateNBEntry 1 }

dlsDirLocateNBMatch OBJECT-TYPE

SYNTAX INTEGER (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The order of the entries of dlsDirNBTable  
that match dlsDirLocateNBName. A value of  
one represents the entry that best matches the  
NetBIOS name. A value of two represents the second  
best matched entry, and so on."

::= { dlsDirLocateNBEntry 2 }

dlsDirLocateNBLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Points to the dlsDirNBEntry."

::= { dlsDirLocateNBEntry 3 }

```

-- *****
-- CIRCUIT
-- A circuit is the end-to-end association of two DLSw entities
-- through one or two DLSw nodes. It is the concatenation of
-- two "data links", optionally with an intervening transport
-- connection. The origin of the circuit is the end station that
-- initiates the circuit. The target of the circuit is the end
-- station that receives the initiation.
-- *****

```

```

-----
-- Statistics Related to
Circuits
-----

```

```

dlswCircuitStat OBJECT IDENTIFIER ::= { dlswCircuit 1 }

```

```

dlswCircuitStatActives OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of circuits in dlswCircuitTable that are
not in the disconnected state."
::= { dlswCircuitStat 1 }

```

```

dlswCircuitStatCreates OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of entries ever added to dlswCircuitTable,
or reactivated upon exiting `disconnected' state."
::= { dlswCircuitStat 2 }

```

```

-----
-- Circuit Table
--
-- This table is the DLSw entity's view of circuits. There will be
-- a conceptual row in the table associated with each data link.
--
-- The chart below lists the various possible combinations of
-- origin and target MAC
locations and the number of entries in
-- this Circuit Table:
--
--      number of      | Origin End Station Location

```

```

--      entries in the |-----|
--      Circuit Table | internal  local  remote
--      -----|-----|
-- Target | internal |  NA    2    1
-- End    | local   |  2    2    1
-- Station | remote  |  1    1    NA
-- Location |      |
--
-- NA: Not applicable
--
-- Note:
-- (a) IfIndex and RouteInfo are applied only if location is local.
-- (b) TDomain and TAddr are applied only if location is remote.
--
-- Most of statistics related to circuits can be collected
-- from LLC-2 Link Station Table.
-----

```

dlsuCircuitTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlsuCircuitEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"This table is the circuit representation in the DLSw entity. Virtual data links are used to represent any internal end stations. There is a conceptual row associated with each data link. Thus, for circuits without an intervening transport connection, there are two conceptual rows for each circuit.

The table consists of the circuits being established, established, and as an implementation option, circuits that have been disconnected. For circuits carried over transport connections, an entry is created after the CUR\_cs was sent or received. For circuits between two locally attached devices, or internal virtual MAC addresses, an entry is created when the equivalent of CUR\_cs sent/received status is reached.

End station 1 (S1) and End station 2 (S2) are used to represent the two end stations of the circuit.

S1 is always

an end station which is locally attached.

S2 may be locally attached or remote. If it is locally attached, the circuit will be represented by two rows indexed by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

The table may be used to store the causes of disconnection of

circuits. It is recommended that the oldest disconnected circuit entry be removed from this table when the memory space of disconnected circuits is needed."

::= { dlsuCircuit 2 }

dlsuCircuitEntry OBJECT-TYPE

SYNTAX DlsuCircuitEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlsuCircuitS1Mac,  
          dlsuCircuitS1Sap,  
          dlsuCircuitS2Mac,  
          dlsuCircuitS2Sap }

::= { dlsuCircuitTable 1 }

DlsuCircuitEntry ::= SEQUENCE {

dlsuCircuitS1Mac        MacAddressNC,

dlsuCircuitS1Sap       OCTET STRING,

dlsuCircuitS1IfIndex   INTEGER,

dlsuCircuitS1DlcType   DlcType,

dlsuCircuitS1RouteInfo  OCTET STRING,

dlsuCircuitS1CircuitId  OCTET STRING,

dlsuCircuitS1Dlc        RowPointer,

dlsuCircuitS2Mac        MacAddressNC,

dlsuCircuitS2Sap        OCTET STRING,

dlsuCircuitS2Location   EndStationLocation,

dlsuCircuitS2TDomain    OBJECT IDENTIFIER,

dlsuCircuitS2TAddress   TAddress,

dlsuCircuitS2CircuitId  OCTET STRING,

dlsuCircuitOrigin       INTEGER,

dlsuCircuitEntryTime    TimeTicks,

dlsuCircuitStateTime    TimeTicks,

dlsuCircuitState        INTEGER,

dlsuCircuitPriority      INTEGER,

dlsuCircuitFCSSendGrantedUnits  INTEGER,

dlsuCircuitFCSSendCurrentWndw  INTEGER,

dlsuCircuitFCRecvGrantedUnits  INTEGER,

dlsuCircuitFCRecvCurrentWndw  INTEGER,

dlsuCircuitFCLargestRecvGranted Gauge32,

dlsuCircuitFCLargestSendGranted



```

Gauge32,
  dlswCircuitFCHalveWndwSents Counter32,
  dlswCircuitFCResetOpSents Counter32,
  dlswCircuitFCHalveWndwRcvds Counter32,
  dlswCircuitFCResetOpRcvds Counter32,
  dlswCircuitDiscReasonLocal INTEGER,
  dlswCircuitDiscReasonRemote INTEGER,
  dlswCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....

dlswCircuitS1Mac OBJECT-TYPE
  SYNTAX MacAddressNC
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 1 }

dlswCircuitS1Sap OBJECT-TYPE
  SYNTAX OCTET STRING (SIZE(1))
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "The SAP at End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 2 }

dlswCircuitS1IfIndex
  OBJECT-TYPE
  SYNTAX INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The ifEntry index of the local interface through which S1
    can be reached."
  ::= { dlswCircuitEntry 3 }

dlswCircuitS1DlcType OBJECT-TYPE
  SYNTAX DlcType
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The DLC protocol in use between the DLSw node and S1."
  ::= { dlswCircuitEntry 4 }

dlswCircuitS1RouteInfo OBJECT-TYPE

```

SYNTAX OCTET STRING (SIZE (0..30))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"If source-route bridging is in use between the DLSw  
node and S1, this is the routing information field  
describing the path between the two devices.  
Otherwise the value will be an OCTET STRING of  
zero length."  
::= { dlswCircuitEntry 5 }

dlswCircuitS1CircuitId OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0 | 8))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Circuit ID assigned by this DLSw node to this circuit.  
The first four octets are the DLC port Id, and  
the second four octets are the Data Link Correlator.  
If the DLSw SSP was not used to establish this circuit,  
the value will be a string of zero length."  
::= { dlswCircuitEntry 6 }

dlswCircuitS1Dlc OBJECT-TYPE  
SYNTAX RowPointer  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Points to a conceptual row of the underlying DLC MIB,  
which could either be the standard MIBs (e.g., the SDLC),  
or an enterprise-specific DLC MIB."  
::= { dlswCircuitEntry 7 }

-- .....  
-- Information related to the End Station 2 (S2).  
-- .....

dlswCircuitS2Mac OBJECT-TYPE  
SYNTAX MacAddressNC  
MAX-ACCESS not-accessible  
STATUS current  
  
DESCRIPTION  
"The MAC Address of End Station 2 (S2) used for this circuit."  
::= { dlswCircuitEntry 8 }

dlswCircuitS2Sap OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(1))  
MAX-ACCESS not-accessible

STATUS current  
DESCRIPTION  
"The SAP at End Station 2 (S2) used for this circuit."  
::= { dlswCircuitEntry 9 }

dlswCircuitS2Location OBJECT-TYPE  
SYNTAX EndStationLocation  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The location of End Station 2 (S2).  
If the location of End Station 2 is local, the  
interface information will be available in the  
conceptual row whose S1 and S2 are the S2 and  
the S1 of this conceptual row, respectively."  
::= { dlswCircuitEntry 10 }

dlswCircuitS2TDomain OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"If the location of End Station 2 is remote,  
this value is the transport domain  
of the  
transport protocol the circuit is running  
over. Otherwise, the value is 0.0."  
::= { dlswCircuitEntry 11 }

dlswCircuitS2TAddress OBJECT-TYPE  
SYNTAX TAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"If the location of End Station 2 is remote,  
this object contains the address of the partner  
DLSw, else it will be an OCTET STRING of zero length."  
::= { dlswCircuitEntry 12 }

dlswCircuitS2CircuitId OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0 | 8))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Circuit ID assigned to this circuit by the partner  
DLSw node. The first four octets are the DLC port Id, and  
the second four octets are the Data Link Correlator.  
If the DLSw SSP was not used to establish this circuit,

the value will be a string of zero length."  
::= { dlswCircuitEntry 13 }

```
-- .....  
dlswCircuitOrigin  
OBJECT-TYPE  
SYNTAX  INTEGER {  
    s1      (1),  
    s2      (2)  
}  
MAX-ACCESS read-only  
STATUS   current  
DESCRIPTION  
    "This object specifies which of the two end stations  
    initiated the establishment of this circuit."  
::= { dlswCircuitEntry 14 }
```

```
-- .....  
-- Operational information related to this circuit.  
-- .....
```

```
dlswCircuitEntryTime OBJECT-TYPE  
SYNTAX  TimeTicks  
UNITS   "hundredths of a second"  
MAX-ACCESS read-only  
STATUS   current  
DESCRIPTION  
    "The amount of time (in hundredths of a second) since this  
    circuit table conceptual row was created."  
::= { dlswCircuitEntry 15 }
```

```
dlswCircuitStateTime OBJECT-TYPE  
SYNTAX  TimeTicks  
UNITS   "hundredths of a second"  
MAX-ACCESS read-only  
STATUS   current  
DESCRIPTION  
    "The amount of time (in hundredths of a second) since this  
    circuit entered the current state."  
::= { dlswCircuitEntry 16 }
```

```
dlswCircuitState OBJECT-TYPE  
SYNTAX  INTEGER {  
    disconnected      (1),  
    circuitStart     (2),  
    resolvePending   (3),  
    circuitPending   (4),  
    circuitEstablished (5),  
    connectPending   (6),
```

```
contactPending    (7),
connected         (8),
disconnectPending (9),
haltPending       (10),
haltPendingNoack  (11),
circuitRestart    (12),
restartPending     (13)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The current state of this circuit. The agent, implementation specific, may choose to keep entries for some period of time after circuit disconnect, so the manager can gather the time and cause of disconnection.

While all of the specified values may be returned from a GET operation, the only SETable value is `disconnectPending'. When this value is set, DLSw should perform the appropriate action given its previous state (e.g., send HALT\_DL if the state was `connected') to bring the circuit down to the `disconnected' state. Both the partner DLSw and local end station(s) should be notified as appropriate.

This MIB provides no facility to re-establish a disconnected circuit, because in DLSw this should be an end station-driven function."

```
::= { dlswCircuitEntry 17 }
```

dlswCircuitPriority OBJECT-TYPE

```
SYNTAX INTEGER {
    unsupported (1),
    low         (2),
    medium      (3),
    high        (4),
    highest     (5)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The transmission priority of this circuit as understood by this

DLSw node. This value is determined by the two DLSw nodes at circuit startup time. If this DLSw node does not support DLSw circuit priority, the value `unsupported' should be returned."

```
::= { dlswCircuitEntry 18 }
```

```

-- .....
-- Pacing Objects:
-- These objects are applicable if DLSw is using the SSP circuit
-- pacing protocol to control the flow between the two data links
-- in this circuit.
-- .....
dlswCircuitFCSendGrantedUnits OBJECT-TYPE
    SYNTAX  INTEGER (0..65535)
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The number of paced SSP messages that this DLSw is currently
        authorized to send on this circuit before it must stop and
        wait for an additional flow control indication from the
        partner DLSw.

        The value zero should be returned if this circuit is not
        running
        the DLSw pacing protocol."
        ::= { dlswCircuitEntry 19 }

dlswCircuitFCSendCurrentWndw OBJECT-TYPE
    SYNTAX  INTEGER (0..65535)
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The current window size that this DLSw is using in its role
        as a data sender. This is the value by which this DLSw would
        increase the number of messages it is authorized to send, if
        it were to receive a flow control indication with the bits
        specifying `repeat window'.

        The value zero should be returned if this circuit is not
        running the DLSw pacing protocol."
        ::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits OBJECT-TYPE
    SYNTAX  INTEGER (0..65535)
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "The current number of paced SSP messages that this DLSw has
        authorized the partner DLSw to send on this circuit before
        the partner DLSw must stop and wait for an additional flow
        control indication from this DLSw.

        The value zero should be returned if this circuit is not
        running the DLSw pacing protocol."

```

::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data receiver. This is the number of additional paced SSP messages that this DLSw would be authorizing its DLSw partner to send, if this DLSw were to send a flow control indication with the bits specifying `repeat window`."

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest receive window size granted by this DLSw during the current activation of this circuit. This is not the largest number of messages granted at any time, but the largest window size as represented by FCIND operator bits."

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest send (with respect to this DLSw) window size granted by the partner DLSw during the current activation of this circuit."

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The number of Halve Window operations this DLSw has sent on  
this circuit, in its role as a data  
receiver.

The value zero should be returned if this circuit is not  
running the DLSw pacing protocol."

::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has sent on  
this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not  
running the DLSw pacing protocol."

::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has received on  
this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not  
running the DLSw pacing protocol."

::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has received on  
this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not  
running the DLSw pacing protocol."

::= { dlswCircuitEntry 28 }

-- .....  
-- Information about the circuit disconnection



-- .....  
dlsuCircuitDiscReasonLocal OBJECT-TYPE

SYNTAX INTEGER {  
    endStationDiscRcvd (1),  
    endStationDlcError (2),  
    protocolError (3),  
    operatorCommand (4),  
    haltDIRcvd (5),  
    haltDINoAckRcvd (6),  
    transportConnClosed (7)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The reason why this circuit was last  
disconnected, as seen  
by this DLSw node.

This object is present only if the agent keeps circuit  
table entries around for some period after circuit disconnect."

::= { dlsuCircuitEntry 29 }

dlsuCircuitDiscReasonRemote OBJECT-TYPE

SYNTAX INTEGER {  
    unknown (1),  
    endStationDiscRcvd (2),  
    endStationDlcError (3),  
    protocolError (4),  
    operatorCommand (5)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The generic reason code why this circuit was last  
disconnected, as reported by the DLSw partner in a HALT\_DL  
or HALT\_DL\_NOACK. If the partner does not send a reason  
code in these messages, or the DLSw implementation does  
not report receiving one, the value `unknown' is returned.

This object is present only if the agent keeps circuit table  
entries around for some period after  
circuit disconnect."

::= { dlsuCircuitEntry 30 }

dlsuCircuitDiscReasonRemoteData OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 4))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Implementation-specific data reported by the DLSw partner in a HALT\_DL or HALT\_DL\_NOACK, to help specify how and why this circuit was last disconnected. If the partner does not send this data in these messages, or the DLSw implementation does not report receiving it, a string of zero length is returned.

This object is present only if the agent keeps circuit table entries around for some period after circuit disconnect."

::= { dlswCircuitEntry 31 }

-- .....

- Statistics related to this circuit.
- All statistics are in LLC-2 Link Station Statistical Table.
- All SDLC statistics are in SDLC MIB

-- .....

--

\*\*\*\*\*

-- DLSW SDLC EXTENSION

-- \*\*\*\*\*

dlswSdlcLsEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of entries in dlswSdlcLsTable."

::= { dlswSdlc 1 }

-- .....

dlswSdlcLsTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswSdlcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table defines the virtual MAC addresses for those SDLC link stations that participate in data link switching."

::= { dlswSdlc 2 }

dlswSdlcLsEntry OBJECT-TYPE

SYNTAX DlswSdlcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index of this table is the ifIndex value for the SDLC port which owns this link station and the poll

address of  
the particular SDLC link station."  
INDEX { ifIndex, sdcLSAddress }  
::= { dlsWsdlcLsTable 1 }

DlsWsdlcLsEntry ::= SEQUENCE {  
dlsWsdlcLsLocalMac MacAddressNC,  
dlsWsdlcLsLocalSap OCTET STRING,  
dlsWsdlcLsLocalIdBlock DisplayString,  
dlsWsdlcLsLocalIdNum DisplayString,  
dlsWsdlcLsRemoteMac MacAddressNC,  
dlsWsdlcLsRemoteSap OCTET STRING,  
dlsWsdlcLsRowStatus RowStatus  
}

dlsWsdlcLsLocalMac OBJECT-TYPE  
SYNTAX MacAddressNC  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The virtual MAC address used to represent the SDLC-attached  
link station to the rest of the DLSw network."  
::= { dlsWsdlcLsEntry 1 }

dlsWsdlcLsLocalSap OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(1))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The SAP used to represent this link station."  
::= { dlsWsdlcLsEntry 2 }

dlsWsdlcLsLocalIdBlock OBJECT-TYPE  
SYNTAX DisplayString (SIZE (0 | 3))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The block number is the first three digits of the node\_id,  
if available. These 3 hexadecimal digits identify the  
product."  
DEFVAL { "H" }  
::= { dlsWsdlcLsEntry 3 }

dlsWsdlcLsLocalIdNum OBJECT-TYPE  
SYNTAX DisplayString (SIZE (0 | 5))  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The ID number is the last 5 digits of the node\_id, if available. These 5 hexadecimal digits are administratively defined and combined with the 3 digit block number form the node\_id. This node\_id is used to identify the local node and is included in SNA XIDs."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 4 }

dlswSdlcLsRemoteMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address to which DLSw should attempt to connect

this link station. If this information is not available, a length of zero for this object should be returned."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 5 }

dlswSdlcLsRemoteSap OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP of the remote station to which this link station should be connected. If this information is not available, a length of zero for this object should be returned."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 6 }

dlswSdlcLsRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create or delete the row entry in the dlswSdlcLsTable following the RowStatus textual convention."

::= { dlswSdlcLsEntry 7 }

-- \*\*\*\*\*

-- TRAP GENERATION CONTROL

--

\*\*\*\*\*

dlswTrapControl OBJECT IDENTIFIER ::= { dlswNode 10 }

dlsWTrapCntlTConnPartnerReject OBJECT-TYPE

```
SYNTAX INTEGER {
    enabled (1),
    disabled (2),
    partial (3)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to emit partner reject related traps. With the value of `enabled` the DLSw will emit all partner reject related traps. With the value of `disabled` the DLSw will not emit any partner reject related traps. With the value of `partial` the DLSw will only emits partner reject traps for CapEx reject. The changes take effect immediately."

::= { dlsWTrapControl 1 }

dlsWTrapCntlTConnProtViolation OBJECT-TYPE

```
SYNTAX TruthValue
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to generate protocol-violation traps on the events such as window size violation. The changes take effect immediately."

::= { dlsWTrapControl 2 }

dlsWTrapCntlTConn OBJECT-TYPE

```
SYNTAX INTEGER {
    enabled (1),
    disabled (2),
    partial (3)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to emit transport connection up and down traps. With the value of `enabled` the DLSw will emit traps when connections enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when connections enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will only emits transport connection down traps when the connection is closed with busy."

The changes take effect immediately."  
 ::= { dlsWTrapControl 3 }

dlsWTrapCntlCircuit OBJECT-TYPE

SYNTAX INTEGER {  
 enabled (1),  
 disabled (2),  
 partial (3)  
 }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to generate circuit up and down traps. With the value of `enabled` the DLSw will emit traps when circuits enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when circuits enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will emit traps only for those circuits that are initiated by this DLSw, e.g., originating the CUR\_CS message. The changes take effect immediately."

::= { dlsWTrapControl 4 }

-- \*\*\*\*\*

-- NOTIFICATIONS, i.e., TRAP DEFINITIONS

-- \*\*\*\*\*

dlsWTraps OBJECT IDENTIFIER

::= { dlsWMIB 0 }

-----

-- This section defines the well-known notifications sent by  
-- DLSW agents.

-- Care must be taken to insure that no particular notification  
-- is sent to a single receiving entity more often than once  
-- every five seconds.

--

-- Traps includes:

- (1) Partner rejected (capEx rejection, not in partner list, etc.)
- (2) DLSw protocol violation (e.g., window size violation, etc.)
- (3) Transport connection up/down

-- (4) Circuit up/down

-----

--

dlsWTrapTConnPartnerReject NOTIFICATION-TYPE

OBJECTS { dlsWTConnOperTDomain, dlsWTConnOperRemoteTAddr

```

}
STATUS    current
DESCRIPTION
    "This trap is sent each time a transport connection
    is rejected by a partner DLSw during Capabilities
    Exchanges. The emission of this trap is controlled
    by dlswTrapCntlTConnPartnerReject."
::= { dlswTraps
1 }

dlswTrapTConnProtViolation NOTIFICATION-TYPE
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a protocol violation is
    detected for a transport connection. The emission of this
    trap is controlled by dlswTrapCntlTConnProtViolation."
::= { dlswTraps 2 }

dlswTrapTConnUp NOTIFICATION-TYPE
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a transport connection
    enters `connected' state. The emission of this trap
    is controlled by dlswTrapCntlTConn."
::= { dlswTraps 3 }

dlswTrapTConnDown NOTIFICATION-TYPE
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a transport connection
    enters `disconnected' state. The emission of this trap
    is controlled by dlswTrapCntlTConn."
::= { dlswTraps 4 }

dlswTrapCircuitUp NOTIFICATION-TYPE
OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
          dlswCircuitS2Mac, dlswCircuitS2Sap
}
STATUS    current
DESCRIPTION
    "This trap is sent each time a circuit enters `connected'
    state. The emission of this trap is controlled by

```

```

    dlswTrapCntlCircuit."
 ::= { dlswTraps 5 }

dlswTrapCircuitDown NOTIFICATION-TYPE
  OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
            dlswCircuitS2Mac, dlswCircuitS2Sap
  }
  STATUS current
  DESCRIPTION
    "This trap is sent each time a circuit enters `disconnected'
    state. The emission of this trap is controlled by
    dlswTrapCntlCircuit."
 ::= { dlswTraps 6 }

-- *****
-- CONFORMANCE INFORMATION
-- *****
dlswConformance OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances
  OBJECT IDENTIFIER ::= { dlswConformance 1 }
dlswGroups OBJECT IDENTIFIER ::= { dlswConformance 2 }

-----
-- COMPLIANCE STATEMENTS
-----

-- .....
-- Core compliance for all DLsw entities
-- .....

dlswCoreCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "The core compliance statement for all DLsw nodes."
  MODULE
    MANDATORY-GROUPS {
      dlswNodeGroup,
      dlswTConnStatGroup,
      dlswTConnConfigGroup,
      dlswTConnOperGroup,
      dlswInterfaceGroup,
      dlswCircuitGroup,
      dlswCircuitStatGroup,
      dlswNotificationGroup }

  GROUP dlswNodeNBGroup
  DESCRIPTION

```



"The DLSw NetBIOS Node group is mandatory only for those DLSw entities that implement NetBIOS."

GROUP dlswTConnNBGroup

DESCRIPTION

"The DLSw NetBIOS Transport Connection group is mandatory only for those DLSw entities that implement NetBIOS."

OBJECT dlswNodeStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeVirtualSegmentLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeResourceNBExclusivity

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswNodeResourceMacExclusivity

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConnPartnerReject

MIN-ACCESS

read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConnProtViolation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConn

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlCircuit

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigTDomain  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigLocalTAddr  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigRemoteTAddr  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigEntryType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigGroupDefinition  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigSetupType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigSapList  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigAdvertiseMacNB  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigInitCirRecvWndw  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigRowStatus

MIN-ACCESS read-only  
DESCRIPTION  
"Write access is  
not required."

OBJECT dlswTConnOperState  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfVirtualSegment  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfSapList  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswCircuitState  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { dlswCompliances 1 }

-- .....  
-- Compliance for all DLSw entities that provide TCP transport.  
-- .....  
dlswTConnTcpCompliance MODULE-COMPLIANCE

STATUS current  
DESCRIPTION  
"Compliance for DLSw nodes that use TCP as a  
transport connection protocol."

MODULE  
MANDATORY-GROUPS {  
    dlswTConnTcpConfigGroup,  
    dlswTConnTcpOperGroup }

OBJECT dlswTConnTcpConfigKeepAliveInt  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnTcpConfigTcpConnections

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnTcpConfigMaxSegmentSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

::= { dlswCompliances 2 }

-- .....  
-- Compliance for all DLSw Entities that implement a directory  
-- .....

dlswDirCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide a directory  
function."

MODULE

MANDATORY-GROUPS {  
    dlswDirGroup }

GROUP dlswDirNBGroup

DESCRIPTION

"The DLSw NetBIOS group is mandatory only for  
those DLSw entities that implement NetBIOS."

OBJECT dlswDirMacMac

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBNameType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBLFSize  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { dlswCompliances 3 }

-- .....  
-- Compliance for all DLSw entities that provide an ordered  
-- list of directory entries that match a resource  
-- .....

dlswDirLocateCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide  
an ordered  
list of directory entries for a given resource."

MODULE

MANDATORY-GROUPS {  
dlswDirLocateGroup }

GROUP dlswDirLocateNBGroup

DESCRIPTION

"The DLSw NetBIOS group is mandatory only for  
those DLSw entities that implement NetBIOS."

::= { dlswCompliances 4 }

-- .....  
-- Compliance for all DLSw entities that support SDLC end stations  
-- .....

dlswSdlcCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that support SDLC."

MODULE

MANDATORY-GROUPS {

dlswSdlcGroup }

OBJECT dlswSdlcLsLocalMac  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsLocalSap  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsLocalIdBlock  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsLocalIdNum  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsRemoteMac  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsRemoteSap  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { dlswCompliances 5 }

-----  
-- CONFORMANCE GROUPS  
-----

-- .....  
--  
Node Conformance Group  
-- .....

dlswNodeGroup OBJECT-GROUP

```

OBJECTS {
    dlswNodeVersion,
    dlswNodeVendorID,
    dlswNodeVersionString,
    dlswNodeStdPacingSupport,
    dlswNodeStatus,
    dlswNodeUpTime,
    dlswNodeVirtualSegmentLFSize,
    dlswNodeResourceMacExclusivity,
    dlswTrapCntlTConnPartnerReject,
    dlswTrapCntlTConnProtViolation,
    dlswTrapCntlTConn,
    dlswTrapCntlCircuit
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw node general information."
::= { dlswGroups 1 }

```

```

-- .....
dlswNodeNBGroup OBJECT-GROUP
OBJECTS {
    dlswNodeResourceNBExclusivity
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw node general information
    specifically for nodes that support NetBIOS."
::=
{ dlswGroups 2 }

```

```

-- .....
dlswTConnStatGroup OBJECT-GROUP
OBJECTS {
    dlswTConnStatActiveConnections,
    dlswTConnStatCloseIdles,
    dlswTConnStatCloseBusys
}
STATUS current
DESCRIPTION
    "Conformance group for statistics for transport
    connections."
::= { dlswGroups 3 }

```

```

-- .....
dlswTConnConfigGroup OBJECT-GROUP
OBJECTS {
    dlswTConnConfigTDomain,

```



```

    dlswTConnConfigLocalTAddr,
    dlswTConnConfigRemoteTAddr,
    dlswTConnConfigLastModifyTime,
    dlswTConnConfigEntryType,
    dlswTConnConfigGroupDefinition,
    dlswTConnConfigSetupType,
    dlswTConnConfigSapList,
    dlswTConnConfigAdvertiseMacNB,
    dlswTConnConfigInitCirRecvWndw,
    dlswTConnConfigOpens,
    dlswTConnConfigRowStatus
}
STATUS current
DESCRIPTION
"Conformance
group for the configuration of
transport connections."
::= { dlswGroups 4 }

```

```

-- .....
dlswTConnOperGroup OBJECT-GROUP
OBJECTS {
    dlswTConnOperLocalTAddr,
    dlswTConnOperEntryTime,
    dlswTConnOperConnectTime,
    dlswTConnOperState,
    dlswTConnOperConfigIndex,
    dlswTConnOperFlowCntlMode,
    dlswTConnOperPartnerVersion,
    dlswTConnOperPartnerVendorID,
    dlswTConnOperPartnerVersionStr,
    dlswTConnOperPartnerInitPacingWndw,
    dlswTConnOperPartnerSapList,
    dlswTConnOperPartnerMacExcl,
    dlswTConnOperPartnerMacInfo,
    dlswTConnOperDiscTime,
    dlswTConnOperDiscReason,
    dlswTConnOperDiscActiveCir,
    dlswTConnOperInDataPkts,
    dlswTConnOperOutDataPkts,
    dlswTConnOperInDataOctets,
    dlswTConnOperOutDataOctets,
    dlswTConnOperInCntlPkts,
    dlswTConnOperOutCntlPkts,
    dlswTConnOperCURExSents,
    dlswTConnOperICRexRcvds,
    dlswTConnOperCURExRcvds,
    dlswTConnOperICRexSents,

```

```

    dlswTConnOperCirCreates,
    dlswTConnOperCircuits
  }
STATUS current
DESCRIPTION
  "Conformance group for operation information for
  transport connections."
::= { dlswGroups 5 }
-- .....
dlswTConnNBGroup OBJECT-GROUP
OBJECTS {
  dlswTConnOperPartnerNBExcl,
  dlswTConnOperPartnerNBInfo,
  dlswTConnOperNQexSents,
  dlswTConnOperNRexRcvds,
  dlswTConnOperNQexRcvds,
  dlswTConnOperNRexSents
}
STATUS current
DESCRIPTION
  "Conformance group for operation information for
  transport connections, specifically for nodes
  that support NetBIOS."
::= { dlswGroups 6 }
-- .....
dlswTConnTcpConfigGroup OBJECT-GROUP
OBJECTS {
  dlswTConnTcpConfigKeepAliveInt,
  dlswTConnTcpConfigTcpConnections,
  dlswTConnTcpConfigMaxSegmentSize
}
STATUS current
DESCRIPTION
  "Conformance group for configuration information for
  transport connections using TCP."
::= { dlswGroups 7 }
-- .....
dlswTConnTcpOperGroup OBJECT-GROUP
OBJECTS {
  dlswTConnTcpOperKeepAliveInt,
  dlswTConnTcpOperPrefTcpConnections,
  dlswTConnTcpOperTcpConnections
}
STATUS current
DESCRIPTION
  "Conformance group for operation information for

```

```
transport connections using TCP."  
 ::= { dlswGroups 8 }
```

```
-- .....  
dlswInterfaceGroup OBJECT-GROUP  
OBJECTS {  
    dlswIfRowStatus,  
    dlswIfVirtualSegment,  
    dlswIfSapList  
}  
STATUS current  
DESCRIPTION  
    "Conformance group for DLSw interfaces."  
 ::= { dlswGroups  
9 }
```

```
-- .....  
dlswDirGroup OBJECT-GROUP  
OBJECTS {  
    dlswDirMacEntries,  
    dlswDirMacCacheHits,  
    dlswDirMacCacheMisses,  
    dlswDirMacCacheNextIndex,  
    dlswDirMacMac,  
    dlswDirMacMask,  
    dlswDirMacEntryType,  
    dlswDirMacLocationType,  
    dlswDirMacLocation,  
    dlswDirMacStatus,  
    dlswDirMacLFSize,  
    dlswDirMacRowStatus  
}  
STATUS current  
DESCRIPTION  
    "Conformance group for DLSw directory using MAC  
addresses."  
 ::= { dlswGroups 10 }
```

```
-- .....  
dlswDirNBGroup OBJECT-GROUP  
OBJECTS {  
    dlswDirNBEntries,  
    dlswDirNBCacheHits,  
    dlswDirNBCacheMisses,  
    dlswDirNBCacheNextIndex,  
    dlswDirNBName,  
    dlswDirNBNameType,  
    dlswDirNBEntryType,
```

```

    dlswDirNBLocationType,
    dlswDirNBLocation,
    dlswDirNBStatus,
    dlswDirNBLFSize,
    dlswDirNBRowStatus
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw directory using NetBIOS
    names."
::= { dlswGroups 11 }

```

```

-- .....
dlswDirLocateGroup OBJECT-GROUP
OBJECTS {
    dlswDirLocateMacLocation
}
STATUS current
DESCRIPTION
    "Conformance group for a node that can return directory
    entry order for a given MAC address."
::= { dlswGroups 12 }

```

```

-- .....
dlswDirLocateNBGroup OBJECT-GROUP
OBJECTS {
    dlswDirLocateNBLocation
}
STATUS current
DESCRIPTION
    "Conformance group for a node that can return directory
    entry order for a given NetBIOS name."
::= { dlswGroups 13 }

```

```

-- .....
dlswCircuitStatGroup OBJECT-GROUP
OBJECTS {
    dlswCircuitStatActives,
    dlswCircuitStatCreates
}
STATUS current
DESCRIPTION
    "Conformance group for statistics about circuits."
::= { dlswGroups 14 }

```

```

-- .....
dlswCircuitGroup OBJECT-GROUP
OBJECTS {

```

```

dlsuCircuitS1IfIndex,
dlsuCircuitS1DlcType,
dlsuCircuitS1RouteInfo,
dlsuCircuitS1CircuitId,
dlsuCircuitS1Dlc,
dlsuCircuitS2Location,
dlsuCircuitS2TDomain,
dlsuCircuitS2TAddress,
dlsuCircuitS2CircuitId,
dlsuCircuitOrigin,
dlsuCircuitEntryTime,
dlsuCircuitStateTime,
dlsuCircuitState,
dlsuCircuitPriority,
dlsuCircuitFCSendGrantedUnits,
dlsuCircuitFCSendCurrentWndw,
dlsuCircuitFCRecvGrantedUnits,
dlsuCircuitFCRecvCurrentWndw,
dlsuCircuitFCLargestRecvGranted,
dlsuCircuitFCLargestSendGranted,
dlsuCircuitFCHalveWndwSents,
dlsuCircuitFCResetOpSents,
  dlsuCircuitFCHalveWndwRcvds,
dlsuCircuitFCResetOpRcvds,
dlsuCircuitDiscReasonLocal,
dlsuCircuitDiscReasonRemote,
dlsuCircuitDiscReasonRemoteData
}

```

STATUS current

DESCRIPTION

"Conformance group for DLSw circuits."

::= { dlsuGroups 15 }

-- .....

dlsuSdlcGroup OBJECT-GROUP

OBJECTS {

```

dlsuSdlcLsEntries,
dlsuSdlcLsLocalMac,
dlsuSdlcLsLocalSap,
dlsuSdlcLsLocalIdBlock,
dlsuSdlcLsLocalIdNum,
dlsuSdlcLsRemoteMac,
dlsuSdlcLsRemoteSap,
dlsuSdlcLsRowStatus
}

```

STATUS current

DESCRIPTION

"Conformance group for DLSw SDLC support."

```

 ::= { dlswGroups 16 }

-- .....
dlswNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    dlswTrapTConnPartnerReject,
    dlswTrapTConnProtViolation,

    dlswTrapTConnUp,
    dlswTrapTConnDown,
    dlswTrapCircuitUp,
    dlswTrapCircuitDown
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw notifications."
 ::= { dlswGroups 17 }

```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB

No license file was found, but licenses were detected in source scan.

MIOX25-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

    Counter,
    TimeTicks
        FROM RFC1155-SMI
    OBJECT-TYPE
        FROM RFC-1212
    DisplayString, transmission,
    ifIndex
        FROM RFC1213-MIB
    InstancePointer
        FROM RFC1316-MIB
    X121Address
        FROM RFC1382-MIB
    PositiveInteger
        FROM RFC1381-MIB;

```

-- IP over X.25 MIB

miox OBJECT IDENTIFIER ::= { transmission 38 }

mioxPle OBJECT IDENTIFIER ::= { miox 1 }

mioxPeer OBJECT IDENTIFIER ::= { miox 2 }

```
-- #####  
--      Ple Table  
-- #####
```

```
-- Systems that implement RFC 1356 must also implement  
-- all objects in this group.
```

```
mioxPleTable OBJECT-TYPE  
    SYNTAX SEQUENCE OF MioxPleEntry  
    ACCESS not-accessible  
    STATUS mandatory  
    DESCRIPTION  
        "This table contains information relative to  
        an interface to an X.25 Packet Level Entity  
        (PLE)."  
    ::= { mioxPle 1 }
```

```
mioxPleEntry OBJECT-TYPE  
    SYNTAX MioxPleEntry  
    ACCESS not-accessible  
    STATUS mandatory  
    DESCRIPTION  
        "These objects manage the encapsulation of  
        other protocols within X.25."  
    INDEX { ifIndex }  
    ::= { mioxPleTable 1 }
```

```
MioxPleEntry ::= SEQUENCE {  
    mioxPleMaxCircuits  
        INTEGER,  
    mioxPleRefusedConnections  
        Counter,  
    mioxPleEnAddrToX121LkupFlrs  
        Counter,  
    mioxPleLastFailedEnAddr  
        OCTET STRING,  
    mioxPleEnAddrToX121LkupFlrTime  
        TimeTicks,  
    mioxPleX121ToEnAddrLkupFlrs  
        Counter,  
    mioxPleLastFailedX121Address  
        X121Address,  
    mioxPleX121ToEnAddrLkupFlrTime  
        TimeTicks,  
    mioxPleQbitFailures  
        Counter,  
    mioxPleQbitFailureRemoteAddress
```

```

    X121Address,
mioxPleQbitFailureTime
    TimeTicks,
mioxPleMinimumOpenTimer
    PositiveInteger,
mioxPleInactivityTimer
    PositiveInteger,
mioxPleHoldDownTimer
    PositiveInteger,
mioxPleCollisionRetryTimer
    PositiveInteger,
mioxPleDefaultPeerId
    InstancePointer
}

```

mioxPleMaxCircuits OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits that can be open at one time for this interface.

A value of zero indicates the interface will not allow any additional circuits (as it may soon be shutdown). A value of 2147483647 allows an unlimited number of circuits."

::= { mioxPleEntry 1 }

mioxPleRefusedConnections OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of X.25 calls from a remote systems to this system that were cleared by this system. The interface instance should identify the X.25 interface the call came in on."

::= { mioxPleEntry 2 }

mioxPleEnAddrToX121LkupFlrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times a translation from an Encapsulated Address to an X.121 address failed to find a corresponding X.121



address. Encapsulated addresses can be looked up in the mioxPeerTable or translated via an algorithm as for the DDN. Addresses

that are successfully recognized do not increment this counter. Addresses that are not recognized (reflecting an abnormal packet delivery condition) increment this counter.

If an address translation fails, it may be difficult to determine which PLE entry should count the failure. In such cases the first likely entry in this table should be selected. Agents should record the failure even if they are unsure which PLE should be associated with the failure."

::= { mioxPleEntry 3 }

#### mioxPleLastFailedEnAddr OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(2..128))

ACCESS read-only

STATUS mandatory

#### DESCRIPTION

"The last Encapsulated address that failed to find a corresponding X.121 address and caused mioxPleEnAddrToX121LkupFlrs

to be

incremented. The first octet of this object contains the encapsulation type, the remaining octets contain the address of that type that failed. Thus for an IP address, the length will be five octets, the first octet will contain 204 (hex CC), and the last four octets will contain the IP address. For a snap encapsulation, the first byte would be 128 (hex 80) and the rest of the octet string would have the snap header."

::= { mioxPleEntry 4 }

#### mioxPleEnAddrToX121LkupFlrTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

#### DESCRIPTION

"The most recent value of sysUpTime when the translation from an Encapsulated Address to

X.121 address failed to find a corresponding  
X.121 address."  
::= { mioxPleEntry 5 }

mioxPleX121ToEnAddrLkupFlrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times the translation from an  
X.121 address to an Encapsulated Address  
failed to find a corresponding Encapsulated  
Address. Addresses successfully recognized  
by an algorithm do not increment this  
counter. This counter reflects the number  
of times call acceptance encountered the  
abnormal condition of not recognizing the  
peer."

::= { mioxPleEntry 6 }

mioxPleLastFailedX121Address OBJECT-TYPE

SYNTAX X121Address

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The last X.121 address that caused  
mioxPleX121ToEnAddrLkupFlrs to increase."

::= { mioxPleEntry 7 }

mioxPleX121ToEnAddrLkupFlrTime

OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The most recent value of sysUpTime when the  
translation from an X.121 address to an  
Encapsulated Address failed to find a  
corresponding Encapsulated Address."

::= { mioxPleEntry 8 }

mioxPleQbitFailures OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times a connection was closed

because of a Q-bit failure."  
::= { mioxPleEntry 9 }

mioxPleQbitFailureRemoteAddress OBJECT-TYPE

SYNTAX X121Address

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The remote address of the most recent  
(last) connection that was closed because of  
a Q-bit failure."

::= { mioxPleEntry 10 }

mioxPleQbitFailureTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The most recent value of sysUpTime when a  
connection was closed because of a Q-bit  
failure. This will also be the last time  
that mioxPleQbitFailures was incremented."

::= { mioxPleEntry 11 }

mioxPleMinimumOpenTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The minimum time in milliseconds this  
interface will keep a connection open before  
allowing it to be closed. A value of zero  
indicates no timer."

DEFVAL { 0 }

::= { mioxPleEntry 12 }

mioxPleInactivityTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The amount of time time in milliseconds  
this interface will  
keep an idle connection  
open before closing it. A value of  
2147483647 indicates no timer."

DEFVAL { 10000 }

::= { mioxPleEntry 13 }

mioxPleHoldDownTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The hold down timer in milliseconds. This is the minimum amount of time to wait before trying another call to a host that was previously unsuccessful. A value of 2147483647 indicates the host will not be retried."

DEFVAL { 0 }

::= { mioxPleEntry 14 }

mioxPleCollisionRetryTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The Collision Retry Timer in milliseconds. The time to delay between call attempts when the maximum number of circuits

is exceeded

in a call attempt."

DEFVAL { 0 }

::= { mioxPleEntry 15 }

mioxPleDefaultPeerId OBJECT-TYPE

SYNTAX InstancePointer

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This identifies the instance of the index in the mioxPeerTable for the default parameters to use with this interface.

The entry identified by this object may have a zero length Encapsulation address and a zero length X.121 address.

These default parameters are used with connections to hosts that do not have entries in the mioxPeerTable. Such connections occur when using ddn-x25 IP-X.25 address mapping or when accepting

connections from other hosts not in the  
mioPeerTable.

The mioPeerEncTable entry with the same

index as the mioPeerTable entry specifies  
the call encapsulation types this PLE will  
accept for peers not in the mioPeerTable.  
If the mioPeerEncTable doesn't contain any  
entries, this PLE will not accept calls from  
entries not in the mioPeerTable."

::= { mioPleEntry 16 }

```
-- #####  
--      Peer Table  
-- #####
```

```
-- Systems that implement RFC 1356 must also implement  
-- all objects in this group.
```

mioPeerTable OBJECT-TYPE

SYNTAX SEQUENCE OF MioPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"This table contains information about the  
possible peers this machine may exchange  
packets with."

::= { mioPeer 1 }

mioPeerEntry OBJECT-TYPE

SYNTAX MioPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Per peer information."

INDEX { mioPeerIndex }

::= { mioPeerTable 1 }

MioPeerEntry ::= SEQUENCE {

mioPeerIndex

PositiveInteger,

mioPeerStatus

INTEGER,

```

mioxPeerMaxCircuits
    PositiveInteger,
mioxPeerIfIndex
    PositiveInteger,
mioxPeerConnectSeconds
    Counter,
mioxPeerX25CallParamId
    InstancePointer,
mioxPeerEnAddr
    OCTET STRING,
mioxPeerX121Address
    X121Address,
mioxPeerX25CircuitId
    InstancePointer,
mioxPeerDescr
    DisplayString
}

```

mioxPeerIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-only

STATUS mandatory

DESCRIPTION

"An index value that distinguished one entry  
from another.

This index is independent of  
any other index."

::= { mioxPeerEntry 1 }

-- Systems can claim conformance with this MIB without  
-- implementing sets to mioxPeerStatus with a value of  
-- clearCall or makeCall.  
-- All other defined values must be accepted.  
-- Implementors should realize that allowing these values  
-- provides richer management, and implementations  
-- are encouraged to accept these values.

mioxPeerStatus OBJECT-TYPE

SYNTAX INTEGER {

valid (1),  
createRequest (2),  
underCreation (3),  
invalid (4),  
clearCall (5),  
makeCall (6)  
}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This reports the status of a peer entry.  
A value of valid indicates a normal entry  
that is in use by the agent. A value of

underCreation indicates a newly created  
entry which isn't yet in use because the  
creating management station is still setting  
values.

The value of invalid indicates the entry is  
no longer in use and the agent is free to  
delete the entry at any time. A management  
station is also free to use an entry in the  
invalid state.

Entries are created by setting a value of  
createRequest. Only non-existent or invalid  
entries can be set to createRequest. Upon  
receiving a valid createRequest, the agent  
will create an entry in the underCreation  
state. This object can not be set to a  
value of underCreation directly, entries can  
only be created by setting a value of  
createRequest. Entries that exist in other

than the invalid state can not be set to  
createRequest.

Entries with a value of underCreation are  
not used by the system and the management  
station can change the values of other  
objects in the table entry. Management  
stations should also remember to configure  
values in the mioxPeerEncTable with the same  
peer index value as this peer entry.

An entry in the underCreation state can be  
set to valid or invalid. Entries in the  
underCreation state will stay in that state  
until 1) the agent times them out, 2) they  
are set to valid, 3) they are set to  
invalid. If an agent notices an entry has  
been in the underCreation state for an  
abnormally long time, it may decide the  
management station has failed and invalidate

the entry. A prudent agent will understand  
that the management station may need to wait

for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

Entries in the valid state may also be set to makeCall or clearCall to make or clear X.25 calls to the peer. After such a set request the entry will still be in the valid state. Setting a value of makeCall causes the agent to initiate an X.25 call request to the peer specified by the entry. Setting a value of clearCall causes the agent to initiate clearing one X.25 call present

to

the peer. Each set request will initiate another call or clear request (up to the maximum allowed); this means that management stations that fail to get a response to a set request should query to see if a call was in fact placed or cleared before retrying the request. Entries not in the valid state can not be set to makeCall or clearCall.

The values of makeCall and clearCall provide for circuit control on devices which perform Ethernet Bridging using static circuit assignment without address recognition; other devices which dynamically place calls based on destination addresses may reject such requests.

An agent that (re)creates a new entry because of a set with createRequest, should

```
also (re)create a mioxPeerEncTable entry
    with a mioxPeerEncIndex of 1, and a
    mioxPeerEncType of 204 (hex CC)."
::= { mioxPeerEntry 2 }
```

mioxPeerMaxCircuits OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write



STATUS mandatory  
DESCRIPTION  
"The maximum number of X.25 circuits allowed  
to this peer."  
DEFVAL { 1 }  
::= { mioxPeerEntry 3 }

mioxPeerIfIndex OBJECT-TYPE

SYNTAX PositiveInteger  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
"The value of the ifIndex object for the  
interface to X.25 to use to call the peer."  
DEFVAL { 1 }  
::= { mioxPeerEntry 4 }

mioxPeerConnectSeconds OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The number of seconds a call to this peer  
was active. This counter  
will be  
incremented by one for every second a  
connection to a peer was open. If two calls  
are open at the same time, one second of  
elapsed real time will result in two  
seconds of connect time."  
::= { mioxPeerEntry 5 }

mioxPeerX25CallParamId OBJECT-TYPE

SYNTAX InstancePointer  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
"The instance of the index object in the  
x25CallParmTable from RFC 1382 for the X.25  
call parameters used to communicate with the  
remote host. The well known value {0 0}  
indicates no call parameters specified."  
DEFVAL { {0 0} }  
::= { mioxPeerEntry 6 }

mioxPeerEnAddr OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..128))  
ACCESS read-write

STATUS mandatory

DESCRIPTION

"The Encapsulation address of the remote host mapped by this table entry. A length of zero indicates the remote IP address is unknown or unspecified for use as a PLE default.

The first octet of this object contains the encapsulation type, the remaining octets contain an address of that type. Thus for an IP address, the length will be five octets, the first octet will contain 204 (hex CC), and the last four octets will contain the IP address. For a snap encapsulation, the first byte would be 128 (hex 80) and the rest of the octet string would have the snap header."

DEFVAL { "h }

::= { mioxPeerEntry 7 }

mioxPeerX121Address OBJECT-TYPE

SYNTAX X121Address

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The X.25 address of the remote host mapped by this table entry. A zero length string indicates the X.25 address is unspecified for use as the PLE default."

DEFVAL { "h }

::= { mioxPeerEntry 8 }

- Systems can claim conformance to this MIB without
- implementing sets to mioxPeerX25CircuitId.
- However systems that use PVCs with RFC1356
- are encouraged to implement sets.

mioxPeerX25CircuitId OBJECT-TYPE

SYNTAX InstancePointer

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This object identifies the instance of the index for the X.25 circuit open to the peer mapped by this table entry. The well known value {0 0} indicates no connection currently active. For multiple connections,

this identifies the index of a multiplexing table entry for the connections. This can only be written to configure use of PVCs

which means the identified circuit table entry for a write must be a PVC."

```
DEFVAL { {0 0} }  
::= { mioxPeerEntry 9 }
```

mioxPeerDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This object returns any identification information about the peer. An agent may supply the comment information found in the configuration file entry for this peer. A zero length string indicates no information available."

```
DEFVAL { "h" }  
::= { mioxPeerEntry 10 }
```

```
-- #####  
-- Peer Encapsulation Table  
-- #####
```

mioxPeerEncTable OBJECT-TYPE

SYNTAX SEQUENCE OF MioxPeerEncEntry

ACCESS not-accessible

STATUS

mandatory

DESCRIPTION

"This table contains the list of encapsulations used to communicate with a peer. This table has two indexes, the first identifies the peer, the second distinguishes encapsulation types.

The first index identifies the corresponding entry in the mioxPeerTable. The second index gives the priority of the different encapsulations.

The encapsulation types are ordered in priority order. For calling a peer, the

first entry (mioxPeerEncIndex of 1) is tried first. If the call doesn't succeed because the remote host clears the call due to incompatible call user data, the next entry in the list is tried. Each entry is tried until the list is exhausted.

For answering a call, the encapsulation type requested by the peer must be found in the list or the call will be refused. If there are no entries in this table for a peer, all call requests from the peer will be refused.

Objects in this table can only be set when the mioxPeerStatus object with the same index has a value of underCreation. When that status object is set to invalid and deleted, the entry in this table with that peer index must also be deleted."

::= { mioxPeer 2 }

mioxPeerEncEntry OBJECT-TYPE

SYNTAX MioxPeerEncEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Per connection information."

INDEX { mioxPeerIndex, mioxPeerEncIndex }

::= { mioxPeerEncTable 1 }

MioxPeerEncEntry ::= SEQUENCE {

mioxPeerEncIndex

PositiveInteger,

mioxPeerEncType

INTEGER

}

mioxPeerEncIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The second index in the table which distinguishes different encapsulation types."

::= { mioxPeerEncEntry 1 }

mioxPeerEncType OBJECT-TYPE

SYNTAX INTEGER (0..256)

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The value of the encapsulation type. For IP encapsulation this will have a value of 204 (hex CC). For SNAP encapsulated packets, this will have a value of 128 (hex 80). For CLNP, ISO 8473, this will have a value of 129 (hex 81). For ES-ES, ISO 9542, this will have a value of 130 (hex 82). A value of 197 (hex C5) identifies the Blacker X.25 encapsulation. A value

of 0,

identifies the Null encapsulation.

This value can only be written when the mioxPeerStatus object with the same mioxPeerIndex has a value of underCreation. Setting this object to a value of 256 deletes the entry. When deleting an entry, all other entries in the mioxPeerEncTable with the same mioxPeerIndex and with an mioxPeerEncIndex higher then the deleted entry, will all have their mioxPeerEncIndex values decremented by one."

::= { mioxPeerEncEntry 2 }

-- #####

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB

No license file was found, but licenses were detected in source scan.

APM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

NOTIFICATION-TYPE,

Counter32, Unsigned32 FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, TimeStamp,

TimeInterval, TruthValue, DateAndTime,

StorageType FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP,

NOTIFICATION-GROUP FROM SNMPv2-CONF

SnmpAdminString FROM SNMP-FRAMEWORK-MIB  
rmon, OwnerString FROM RMON-MIB  
protocolDirLocalIndex FROM RMON2-MIB;

-- Application Performance Measurement MIB

apm MODULE-IDENTITY

LAST-UPDATED "200402190000Z" -- February 19, 2004

ORGANIZATION "IETF RMON MIB Working Group"

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"

DESCRIPTION

"The MIB module for measuring application performance  
as experienced by end-users.

Copyright (C) The Internet Society (2004). This version of  
this MIB module is part of RFC 3729; see the RFC itself for  
full legal notices."

REVISION "200402190000Z" -- February 19, 2004

DESCRIPTION

"The original version of this MIB Module, published as  
RFC3729."

::= { rmon 23 }

apmMibObjects OBJECT IDENTIFIER ::= { apm 1 }

apmConformance OBJECT IDENTIFIER ::= { apm 2 }

apmCompliances

OBJECT IDENTIFIER ::= { apmConformance 1 }  
apmGroups OBJECT IDENTIFIER ::= { apmConformance 2 }

AppLocalIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A locally arbitrary unique identifier associated with an application or application verb.

All objects of type AppLocalIndex are assigned by the agent out of a common number space. In other words, AppLocalIndex values assigned to entries in one table must not overlap with AppLocalIndex values assigned to entries in another table. Further, every protocolDirLocalIndex value registered by the agent automatically assigns the same value out of the

AppLocalIndex number space.

For example, if the protocolDirLocalIndex values { 1, 3, 5, 7 } have been assigned, and the apmHttpFilterAppLocalIndex values { 6, 8, 9 } have been assigned:

- Assignment of new AppLocalIndex values must not use the values { 1, 3, 5, 6, 7, 8, 9 }.
- AppLocalIndex values { 1, 3, 5, 7 } are automatically assigned and are associated with the identical value of protocolDirLocalIndex. In particular, an entry in the apmAppDirTable indexed by a value provides further information about a protocol indexed by the same value in the protocolDirTable of RMON2.

The value for each supported application must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization, except that if an application is deleted and re-created, it must be re-created with a new value that has not been used since the last re-initialization.

The specific value is meaningful only within a given SNMP entity. An AppLocalIndex value must not be re-used until the next agent restart."

SYNTAX Unsigned32  
(1..2147483647)

ProtocolDirNetworkAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A network level address whose semantics and encoding are specified by an associated protocolDirLocalIndex value. Objects of this type must specify which protocolDirLocalIndex value is used. This value is encoded according to the encoding rules for the identified protocolDirectory entry.

For example, if the associated protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order.

Objects of this type may allow this value to be the zero length string. If so, they must identify the meaning of this value."

SYNTAX OCTET STRING (SIZE(0..255))

DataSourceOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Identifies the source of the data that the associated function is configured to analyze. This source can be any interface on this device.

In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in [4], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.

If the source of the data isn't an interface or cannot be localized to an interface, this object would be set to 0.0"

REFERENCE "The DataSource textual convention is defined in RFC 2021 [5]."

SYNTAX OBJECT IDENTIFIER

RmonClientID ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION



"A long-lived unique ID assigned to an end-system. This ID is assigned by the agent using an implementation-specific algorithm.

Because a client machine may be assigned multiple addresses

over any time period it can be difficult to attribute behavior to a particular client based solely on its address. A ClientID may be assigned to provide a more stable handle for referencing that client. The entity that assigns the ClientID may use various implementation techniques to keep track of a client but if the assigning entity is unable to track client address mappings, it may map client identifiers to client addresses rather than to distinct client machines.

This is named ClientID because it helps to solve a problem seen in network clients (servers usually have well-known, long-lived addresses). However, ClientID's may be assigned to any end-system regardless of its role on the network."

SYNTAX Unsigned32 (0..4294967295)

TransactionAggregationType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Specifies one of 4 different techniques for aggregating transactions.

The metrics for a single transaction are the responsiveness of the transaction and whether the transaction succeeded (a boolean). When such metrics are aggregated in this MIB Module, these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the apmReportTable.

The flows(1) aggregation is the simplest. All transactions that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The clients(2) aggregation results in somewhat more

aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The servers(3) aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The applications(4) aggregation results in the most aggregation (i.e., the fewest resulting records). All transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as different applications have widely varying characteristics. As a result, this set of aggregations is complete."

```
SYNTAX    INTEGER {
    flows(1),  -- Least Aggregation
    clients(2),
    servers(3),
    applications(4) -- Most Aggregation
}
```

-- The APM Application Directory Group

-- The Application Directory Table contains a record for every

-- application monitored by this agent. This table is also used to  
-- configure whether or not an application will be measured and which  
-- bucket boundaries will be used for the application.

--

-- The bucket boundaries define the break-points between bins of a  
-- histogram analysis for that application. As an example of how this  
-- works, consider an entry representing response-time for http.

-- If the boundaries are set as follows:

-- Boundary1: 500 milliseconds

-- Boundary2: 1 second

-- Boundary3: 2 seconds

-- Boundary4: 5

-- Boundary5: 15

-- Boundary6: 60

```
--  
-- If the following measurements are made (all in milliseconds):  
-- 377, 8645, 1300, 487, 1405, 775, 1115, 850, 945, 1054, 7745, 9380  
--  
-- A report run during this interval would report the following  
-- counts:  
-- Bucket1: 2  
-- Bucket2: 3  
-- Bucket3: 4  
-- Bucket4: 0  
-- Bucket5: 3  
-- Bucket6: 0  
--  
Bucket7: 0
```

apmAppDirTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmAppDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The APM MIB directory of applications and application verbs. The agent will populate this table with all applications/verbs of any responsivenessType it has the capability to monitor. Since the agent populates this table with every entry it has the capability to monitor, the entries in this table are read-write, allowing the management station to modify parameters in this table but not to add new entries or delete entries (however, entries may be disabled). If new entries are added to the apmHttpFilterTable or the apmUserDefinedAppTable, the agent will add the corresponding entries to this table.

It is an implementation-dependent matter as to how the agent sets these default parameters. For example, it may leave certain entries

in this table 'off(0)' if the agent developer

believes that combination will be infrequently used, allowing a manager that needs that capability to set it to 'on(1)'.

Some applications are registered in the RMON2 protocol directory and some are registered in other tables in this MIB Module. Regardless of where an application is originally registered, it is assigned an AppLocalIndex value that is the primary index for this table.

The contents of this table affect all reports and exceptions generated by this agent. Accordingly, modification of this table should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this table - it should reflect the preferences of the site administrator, not the software author. As a practical matter, this requires management

software to allow the administrator to configure the values it will use so that it can be adapted to the site policy."

::= { apmMibObjects 1 }

apmAppDirEntry OBJECT-TYPE

SYNTAX ApmAppDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The APM MIB directory of applications and application verbs. An entry will exist in this table for all applications for which application performance measurement is supported."

INDEX { apmAppDirAppLocalIndex,  
apmAppDirResponsivenessType }

::= { apmAppDirTable 1 }

ApmAppDirEntry ::= SEQUENCE {

apmAppDirAppLocalIndex AppLocalIndex,

apmAppDirResponsivenessType INTEGER,

apmAppDirConfig INTEGER,

apmAppDirResponsivenessBoundary1 Unsigned32,

apmAppDirResponsivenessBoundary2 Unsigned32,

apmAppDirResponsivenessBoundary3 Unsigned32,

apmAppDirResponsivenessBoundary4 Unsigned32,

apmAppDirResponsivenessBoundary5

Unsigned32,

apmAppDirResponsivenessBoundary6 Unsigned32

}

apmAppDirAppLocalIndex OBJECT-TYPE

SYNTAX AppLocalIndex

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The AppLocalIndex assigned for this application Directory entry."

::= { apmAppDirEntry 1 }

apmAppDirResponsivenessType OBJECT-TYPE

```
SYNTAX    INTEGER {  
        transactionOriented(1),  
        throughputOriented(2),  
        streamingOriented(3)  
    }
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object describes and configures the agent's support for application performance measurement for this application. There are 3 types of measurements for different types of applications:

Transaction-Oriented applications have a fairly constant workload to perform for all transactions. The responsiveness metric for transaction-oriented applications is application response time (from first request to final delivery of service) and is measured in milliseconds. This is commonly referred to as end-user response time.

Throughput-Oriented applications have widely varying workloads based on the nature of the client request. In particular, throughput-oriented applications vary widely in the amount of data that must be transported to satisfy the request. The responsiveness metric for throughput-oriented applications is kilobits per second.

Streaming-Oriented applications deliver data at a constant metered rate of speed regardless of the responsiveness of the networking and computing infrastructure. This constant rate of speed is generally specified to be below (sometimes well below) the nominal capability of the infrastructure. However, when the infrastructures cannot deliver data at this speed, interruption of service or degradation of service can result. The responsiveness metric for streaming-oriented applications is the ratio of time that the service is degraded or interrupted to the total service time. This metric is measured in parts per million.

Note that for some applications, measuring more than one responsiveness type may be interesting. For agents that wish

to support more than one measurement for a application, they will populate this table with multiple entries for that application, one for each type."

::= { apmAppDirEntry 2 }

#### apmAppDirConfig OBJECT-TYPE

SYNTAX INTEGER {  
    off(1),  
    on(2)  
}

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object describes and configures support for application performance measurement for this application.

If the value of this object is on(2), the agent supports measurement of application performance metrics for this application and is configured to measure such metrics for all APM MIB functions and all interfaces. If the value of this object is off(1), the agent supports measurement of application performance for this application but is configured to not measure these metrics for any APM MIB functions or interfaces. Whenever this value changes from on(2) to off(1), the agent shall delete all related entries in all tables in this MIB Module.

The value of this object must persist across reboots."

::= { apmAppDirEntry 3 }

#### apmAppDirResponsivenessBoundary1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The boundary value between bucket1 and bucket 2. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 4 }

#### apmAppDirResponsivenessBoundary2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The boundary value between bucket2 and bucket 3. If this

value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 5 }

#### apmAppDirResponsivenessBoundary3 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The boundary value between bucket3 and bucket 4. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 6 }

#### apmAppDirResponsivenessBoundary4 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The boundary value between bucket4 and bucket 5. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 7 }

#### apmAppDirResponsivenessBoundary5 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The boundary value between bucket5 and bucket 6. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 8 }

#### apmAppDirResponsivenessBoundary6 OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The boundary value between bucket6 and bucket 7. If this

value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of  
this object must persist across reboots."

::= { apmAppDirEntry 9 }

-- Scalars related to the Application Directory table

apmBucketBoundaryLastChange OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime the last time that any bucket boundary in any appDirEntry was changed. This object can help to determine if two managers are both trying to enforce different configurations of this table."

::= { apmMibObjects 2 }

apmAppDirID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object allows managers to avoid downloading application directory information when the directory is set to a known (usually fixed) configuration.

If the value of this object isn't 0.0, it signifies that the entire contents of the apmAppDirTable, apmHttpFilterTable, apmUserDefinedAppTable and protocolDirTable are equal to a known state identified by the value of this object. If a manager recognizes this value as identifying a directory configuration it has a local copy of, it may use this local copy rather than downloading these tables. Note that it may have downloaded this local copy (and the ID) from another agent and used this copy for all other agents that advertised the same ID.



If an agent recognizes that the entire contents of the `apmAppDirTable`, `apmHttpFilterTable`, `apmUserDefinedAppTable` and `protocolDirTable` are equal to a known state to which an ID has been assigned, it should set this object to that ID.

In many cases when this feature is used, the application directory information will be in read-only memory and thus the tables may not be modified via SNMP requests. In the event

that the tables are writable and a modification is made, the agent is responsible for setting this object to 0.0 if it cannot determine that the state is equal to a known state.

An agent is not obligated to recognize and advertise all such registered states as it may not have knowledge of all states. Thus, a manager may encounter agents whose `DirectoryID` value is 0.0 even though the contents of the directory were equal to a registered state.

Note that the contents of those tables includes the `protocolDirLocalIndex` and `appLocalIndex` values. In other words, these values can't be assigned randomly on each agent, but must be equal to values that are part of the known state. While it is possible for a manager to download application directory details using SNMP and to set the appropriate `directoryID`, the manager would need to have some scheme to ensure consistent values of `LocalIndex` variables from agent to agent.

Such schemes are outside the scope of this specification.

Application directory registrations are unique within an administrative domain.

Typically these registrations will be made by an agent software developer who will set the application directory tables to a read-only state and assign a `DirectoryID` to that state. Thus, all agents running this software would share the same `DirectoryID`. As the application directory might change from one software release to the next, the developer may register different `DirectoryID`'s for each software release.

A customer could also create a site-wide application directory configuration and assign a `DirectoryID` to that configuration

as long as consistent values of LocalIndex variables can be ensured.

The value of this object must persist across reboots."

::= { apmMibObjects 3 }

-- APM HTTP Filter Table

-- The HTTP Filter Table

creates virtual applications which measure the

-- performance of certain web pages or sets of web pages. Some

-- circumstances where this is particularly useful are:

--

-- - An Intranet or ASP scenario where a business application is  
-- running on one or more web pages or scripts.

-- (i.e., /expense/submit.cgi?employeeID=3426&...)

-- - A web-hosting scenario where one wants to measure the  
-- service level for a particular customer

-- - An e-commerce scenario where the performance of certain  
-- pages needs to be monitored more closely.

-- (i.e., shopping cart, shipping, credit card authorization)

apmHttpFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmHttpFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that creates virtual applications which measure the performance of certain web pages or sets of web pages.

When an entry is added to this table, the agent will

automatically create one or more entries in the apmAppDirTable (one for each responsivenessType it is capable of measuring).

Note that when entries exist in this table some HTTP transactions will be summarized twice: in applications represented here as well as the HTTP application. If entries in this table overlap, these transactions may be summarized additional times.

The contents of this table affect all reports and exceptions generated by this agent. Accordingly, modification of this table should be performed by a manager acting in the role of

administrator. In particular, management software should not require or enforce particular configuration of this table - it should reflect the preferences of the site administrator, not the software author."

::= { apmMibObjects 4 }

apmHttpFilterEntry OBJECT-TYPE

SYNTAX ApmHttpFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A virtual application which measure the performance of certain web pages or sets of web pages."

INDEX { apmHttpFilterIndex }

::= { apmHttpFilterTable 1 }

ApmHttpFilterEntry ::= SEQUENCE {

apmHttpFilterIndex Unsigned32,

apmHttpFilterAppLocalIndex AppLocalIndex,

apmHttpFilterServerProtocol Unsigned32,

apmHttpFilterServerAddress ProtocolDirNetworkAddress,

apmHttpFilterURLPath OCTET STRING,

apmHttpFilterMatchType INTEGER,

apmHttpFilterOwner OwnerString,

apmHttpFilterStorageType StorageType,

apmHttpFilterRowStatus RowStatus

}

apmHttpFilterIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the apmHttpFilterTable."

::= { apmHttpFilterEntry 1 }

apmHttpFilterAppLocalIndex

OBJECT-TYPE

SYNTAX AppLocalIndex

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The AppLocalIndex that represents HTTP transactions that match this entry."

This object is read-only. A value is created by the agent from an unused AppLocalIndex value when this apmHttpFilterEntry is created."

::= { apmHttpFilterEntry 2 }

apmHttpFilterServerProtocol OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The protocolDirLocalIndex value of the network level protocol of the apmHttpFilterServerAddress."

::= { apmHttpFilterEntry 3 }

apmHttpFilterServerAddress OBJECT-TYPE

SYNTAX ProtocolDirNetworkAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This entry will only represent transactions coming from the network address specified in this object.

This is represented  
as an octet string with  
specific semantics and length as identified  
by the associated apmHttpFilterServerProtocol object.

If this object is the zero-length string, then this entry will match one of the addresses represented by the 'host' component of the associated apmHttpFilterURLPath object, where the format if a URL [9] is

http://<host>:<port>/<path>?<searchpart>."

::= { apmHttpFilterEntry 4 }

apmHttpFilterURLPath OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..65535))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This entry will only represent HTTP transactions where the URL path component in the request matches this value. This value represents the requested path regardless of any substitution that the server might perform.

Prior to the matching, the URL is stripped of any server address or DNS name and consists solely of the path name on that server.

If the length of this object is zero, then this entry will match if the associated `apmHttpFilterServerAddress` match. If the length of that object is also zero, then this entry will match nothing.

The value of the associated `apmHttpFilterMatchType` dictates the type of matching that will be attempted."

```
::= { apmHttpFilterEntry 5 }
```

`apmHttpFilterMatchType` OBJECT-TYPE

```
SYNTAX INTEGER {  
    exact(1),  
    stripTrailingSlash(2),  
    prefix(3)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The matching algorithm used to compare the URL pathname.

If the value is `exact(1)`, then the pathname component will be compared with the associated `apmHttpFilterURLPath` and will only be associated with this entry if it matches exactly.

If the value is `stripTrailingSlash(2)`, then the pathname

component will be compared with the associated `apmHttpFilterURLPath` and will only be associated with this entry if it matches exactly or if the pathname ends with a `'/` symbol and matches `apmHttpFilterURLPath` if the `'/` symbol is removed from the pathname. This option exists for those paths where an optional trailing slash is possible but for which a prefix match would be too broad.

If the value is `prefix(3)`, then the pathname component will be compared with the associated `apmHttpFilterURLPath` and will only be associated with this entry if the beginning of the pathname matches every octet of this value. Octets that extend beyond the length of this value are ignored."

```
::= { apmHttpFilterEntry 6 }
```

apmHttpFilterOwner OBJECT-TYPE

SYNTAX OwnerString  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { apmHttpFilterEntry 7 }

apmHttpFilterStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The storage type of this apmHttpFilterEntry. If the value of this object is 'permanent', no objects in this row need to be writable."

::= { apmHttpFilterEntry 8 }

apmHttpFilterRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this apmHttpFilterEntry. No objects in this row may be modified while the row's status is 'active'."

::= { apmHttpFilterEntry 9 }

apmHttpIgnoreUnregisteredURLs OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-write  
STATUS current

DESCRIPTION

"When true, APM measurements of HTTP transactions will only measure transactions relating to URLs that match a filter in the apmHttpFilterTable. Thus, measurements for the HTTP application will present aggregated statistics for URL-matching HTTP transactions and measurements for the HTTP GET application verb will present aggregated statistics for URL-matching HTTP GET transactions.

This will be used in environments that wish to monitor only targeted URLs and to ignore large volumes of internet web

browsing traffic.

This object affects all APM reports and exceptions generated by this agent. Accordingly, modification of this object should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this object - it should reflect the preferences of the site administrator, not the software author.

The value of this object must persist across reboots."

::= { apmMibObjects 5 }

#### apmHttp4xxIsFailure OBJECT-TYPE

##### SYNTAX

TruthValue

MAX-ACCESS read-write

STATUS current

##### DESCRIPTION

"When true, this agent will recognize HTTP errors in the range of 400 through 499 and will treat them as unavailable transactions. When false or when this object isn't supported, they will be treated as successful transactions.

This object allows such error pages to be tracked at the possible expense of having user typos treated as poor service on the part of the web server.

This object affects all reports and exceptions generated by this agent. Accordingly, modification of this object should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this object - it should reflect the preferences of the site administrator, not the software author.

The value of this object must persist across reboots."

::= { apmMibObjects 6 }

-- The APM User-Defined Application Table

-- Many application protocols will never be registered with a  
-- standards body (and thus included in a protocol directory standard)  
-- because they are custom, in-house or proprietary  
-- applications. Nevertheless, implementation strategies exist for

-- monitoring the end-user experience of these applications.  
--  
-- This read-only table provides a means for the agent to advertise  
-- which user-defined applications it is monitoring and to associate  
-- each with an AppLocalIndex value. It is an implementation-dependent  
-- matter as to how the agent learns how to monitor these  
-- applications.

apmUserDefinedAppTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmUserDefinedAppEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that advertises user-defined applications that the agent is measuring.

The agent will automatically create one or more entries in the apmAppDirTable (one for each responsivenessType it is capable of measuring) for each entry in this table.

Note that when entries exist in this table some transactions can be summarized more than once if there is overlap between applications defined here and applications defined in the protocol directory or in the httpFilter table."

::= { apmMibObjects 7 }

apmUserDefinedAppEntry OBJECT-TYPE

SYNTAX ApmUserDefinedAppEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A user-defined application that the agent is measuring, along with its AppLocalIndex assignment.

The apmAppDirAppLocalIndex value in the index identifies the agent-assigned AppLocalIndex value for this user-defined application."

INDEX { apmAppDirAppLocalIndex }

::= { apmUserDefinedAppTable 1 }

ApmUserDefinedAppEntry ::= SEQUENCE {

apmUserDefinedAppParentIndex Unsigned32,

apmUserDefinedAppApplication SnmpAdminString

}



apmUserDefinedAppParentIndex OBJECT-TYPE  
SYNTAX Unsigned32 (1..2147483647)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The protocolDirLocalIndex value of the highest-layer  
protocol defined in the protocolDirTable that this  
application is a child of."  
 ::= { apmUserDefinedAppEntry 1 }

apmUserDefinedAppApplication OBJECT-TYPE  
SYNTAX SnmpAdminString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"A human readable descriptive tag for this application."  
 ::= { apmUserDefinedAppEntry 2 }

-- The APM Name Table

apmNameTable OBJECT-TYPE  
SYNTAX SEQUENCE OF ApmNameEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"A client machine may have multiple addresses during a period  
of monitoring. The apmNameTable assigns a long-lived  
identifier to a client and records what addresses  
were  
assigned to that client for periods of time. Various  
implementation techniques exist for tracking this mapping but  
if an agent is unable to track client address mappings, it may  
map client identifiers to client addresses rather than to  
distinct client machines.

A particular apmNameClientID should be a constant attribute of  
a particular client. When available, the agent may also record  
the machine name and/or user name which may be valuable for  
displaying to humans. The apmNameMachineName and  
apmNameUserName are relatively constant, changing only if  
these attributes actually change on the client.

The agent will store a historical log of these entries, aging  
out old entries as the log becomes too large. Since this table  
contains information vital to the interpretation of other  
tables (e.g., the apmReportTable), the agent should ensure that

the log doesn't  
age out entries that would be referenced by  
data in those tables.

Note that an entry for a clientID is active from its  
StartTime until the StartTime of another entry (for the same  
clientID) that supersedes it, or 'now' if none supersede  
it. Therefore, if a clientID only has a single entry, it is by  
definition very new and should never be aged out. No entry for  
a clientID should be aged out unless it has been updated by a  
new entry for the client (i.e., with an updated address) and  
only if the new entry is 'old' enough.

To determine how old is old enough, compute the maximum value  
of Interval \* (NumReports + 1) of all entries in the  
apmReportControlTable (the '+ 1' is to allow a reasonable  
period of time for the report to be downloaded). Then take the  
larger of this value and the age in seconds of the oldest  
entry in the current transaction table. If an entry for

a

clientID is superseded by another entry whose StartTime is  
more than this many seconds ago, then the older entry may be  
deleted."

```
::= { apmMibObjects 8 }
```

apmNameEntry OBJECT-TYPE

SYNTAX ApmNameEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the APM name table. An entry exists for each  
period of time that a client has been associated with a  
particular address.

The protocolDirLocalIndex value in the index identifies  
the network layer protocol for the ClientAddress for this  
entry.

Note that some combinations of index values may result in an  
index that exceeds 128 sub-identifiers in length which exceeds  
the maximum for the SNMP protocol. Implementations should take  
care to avoid such combinations."

```
INDEX { apmNameClientID,  
        protocolDirLocalIndex, apmNameClientAddress,  
        apmNameMappingStartTime }
```

```
::=
```

{ apmNameTable 1 }

```
ApmNameEntry ::= SEQUENCE {
  apmNameClientID          RmonClientID,
  apmNameClientAddress     ProtocolDirNetworkAddress,

  apmNameMappingStartTime  DateAndTime,
  apmNameMachineName       SnmpAdminString,
  apmNameUserName          SnmpAdminString
}
```

apmNameClientID OBJECT-TYPE

```
SYNTAX      RmonClientID
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

"A unique ID assigned to the machine represented by this mapping. This ID is assigned by the agent using an implementation-specific algorithm."

::= { apmNameEntry 1 }

apmNameClientAddress OBJECT-TYPE

```
SYNTAX      ProtocolDirNetworkAddress (SIZE(1..255))
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

"The network client address for this client when this mapping was active.

This is represented as an octet string with specific semantics and length as

identified by the protocolDirLocalIndex

component of the index. This object may not be the zero length string.

Since this object is an index variable, it is encoded in the index according to the index encoding rules. For example, if the protocolDirLocalIndex component of the index indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order. Care should be taken to avoid values of this object that, in conjunction with the other index variables, would result in an index longer than SNMP's maximum of 128 subidentifiers."

::= { apmNameEntry 2 }

apmNameMappingStartTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The time that the agent first discovered this mapping as active."

::= { apmNameEntry 3 }

apmNameMachineName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The human readable name of the client machine.

If the client has no machine name or the agent is unable to learn the machine name, this object will be a zero-length string."

::= { apmNameEntry 4 }

apmNameUserName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The human readable name of a human user using the client machine. If more than one user name are available simultaneously, it is an implementation-dependent matter as to which is used here. However, if the user name changes, this object should change to reflect that change.

Non-human user names like 'root' or 'administrator' aren't intended as values for this object. If the client has no recorded user name or the agent is unable to learn a user name, this

object will be a zero-length string."

::= { apmNameEntry 5 }

-- The APM Report Group

apmReportControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmReportControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Parameters that control the creation of a set of reports that aggregate application performance."

::= { apmMibObjects 9 }

apmReportControlEntry OBJECT-TYPE

SYNTAX ApmReportControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmReportControlTable.

An example of the indexing of this table is

apmReportControlInterval.3"

INDEX { apmReportControlIndex }

::= { apmReportControlTable 1 }

ApmReportControlEntry ::= SEQUENCE {

apmReportControlIndex Unsigned32,

apmReportControlDataSource DataSourceOrZero,

apmReportControlAggregationType TransactionAggregationType,

apmReportControlInterval

Unsigned32,

apmReportControlRequestedSize Unsigned32,

apmReportControlGrantedSize Unsigned32,

apmReportControlRequestedReports Unsigned32,

apmReportControlGrantedReports Unsigned32,

apmReportControlStartTime TimeStamp,

apmReportControlReportNumber Unsigned32,

apmReportControlDeniedInserts Counter32,

apmReportControlDroppedFrames Counter32,

apmReportControlOwner OwnerString,

apmReportControlStorageType StorageType,

apmReportControlStatus RowStatus

}

apmReportControlIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the apmReportControlTable. Each such entry defines a unique report whose results are placed in the apmReportTable on

```
behalf of this apmReportControlEntry."  
 ::= { apmReportControlEntry 1 }
```

#### apmReportControlDataSource OBJECT-TYPE

```
SYNTAX DataSourceOrZero
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

#### DESCRIPTION

"The source of the data for APM Reports generated on behalf of this apmReportControlEntry.

If the measurement is being performed by a probe, this should be set to interface or port where data was received for analysis. If the measurement isn't being performed by a probe, this should be set to the primary interface over which the measurement is being performed. If the measurement isn't being performed by a probe and there is no primary interface or this

information isn't known, this object should be set to 0.0.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."

```
 ::= { apmReportControlEntry 2 }
```

#### apmReportControlAggregationType OBJECT-TYPE

```
SYNTAX TransactionAggregationType
```

```
-- INTEGER {
```

```
-- flows(1),
```

```
-- clients(2),
```

```
-- servers(3),
```

```
-- applications(4)
```

```
-- }
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

#### DESCRIPTION

"The type of aggregation being performed for this set of reports.

The metrics for a single transaction are the responsiveness of the transaction and whether the transaction succeeded (a boolean). When such metrics are aggregated in this MIB Module, these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the apmReportTable.

The flows(1) aggregation is the simplest. All transactions that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The clients(2) aggregation results in somewhat more aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The servers(3) aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The applications(4) aggregation results in the most aggregation (i.e., the fewest resulting records). All

transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as different applications have widely varying characteristics.

As

a result, this set of aggregations is complete.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."

```
::= { apmReportControlEntry 3 }
```

apmReportControlInterval OBJECT-TYPE

SYNTAX Unsigned32

UNITS "Seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interval in seconds over which data is accumulated before being aggregated into a report in the apmReportTable. All reports with the same apmReportControlIndex will be based on the same interval. This object must be greater than zero.

Many users desire that these reports be synchronized to within

seconds of the beginning of the hour because the results may be correlated more meaningfully to business behavior and so that data from multiple agents is aggregated over the same time periods. Thus management software may take extra effort to synchronize

reports to the beginning of the hour and to one

another. However, the agent must not allow reports to 'drift' over time as they will quickly become unsynchronized. In particular, if there is any fixed processing delay between reports, the reports should deduct this time from the interval so that reports don't drift.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."

DEFVAL { 3600 }

::= { apmReportControlEntry 4 }

apmReportControlRequestedSize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of entries requested to be allocated for each report generated on behalf of this entry."

::= { apmReportControlEntry 5 }

apmReportControlGrantedSize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of entries per report the agent has allocated

based on the requested amount in apmReportControlRequestedSize.

Since multiple reports are saved, the total number of entries allocated will be this number multiplied by the value of apmReportControlGrantedReports, or 1 if that object doesn't exist.

When the associated apmReportControlRequestedSize object is created or modified, the agent should set this object as closely to the requested value as is possible for the particular implementation and available resources. When considering resources available, the agent must consider its ability to allocate this many entries for all reports.



Note that while the actual number of entries stored in the reports may fluctuate due to changing conditions, the agent must continue to have storage available to satisfy the full report size for all reports when necessary. Further, the agent must

not lower this value except as a result of a set to the associated `apmReportControlRequestedSize` object."  
::= { `apmReportControlEntry 6` }

`apmReportControlRequestedReports` OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of saved reports requested to be allocated on behalf of this entry."

::= { `apmReportControlEntry 7` }

`apmReportControlGrantedReports` OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of saved reports the agent has allocated based on the requested amount in `apmReportControlRequestedReports`. Since each report can have many entries, the total number of entries allocated will be this number multiplied by the value of `apmReportControlGrantedSize`, or 1 if that object doesn't exist.

When the associated `apmReportControlRequestedReports` object is

created or modified, the agent should set this object as closely to the requested value as is possible for the particular implementation and available resources. When considering resources available, the agent must consider its ability to allocate this many reports each with the number of entries represented by `apmReportControlGrantedSize`, or 1 if that object doesn't exist.

Note that while the storage required for each report may fluctuate due to changing conditions, the agent must continue to have storage available to satisfy the full report size for all reports when necessary. Further, the agent must not lower this value except as a result of a set to the associated

apmReportControlRequestedSize object."  
::= { apmReportControlEntry 8 }

apmReportControlStartTime OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The value of sysUpTime when the system began processing the report in progress. Note that the report in progress is not available.

This object may be used by the management station to figure out the start time for all previous reports saved for this apmReportControlEntry, as reports are started at fixed intervals."

::= { apmReportControlEntry 9 }

apmReportControlReportNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The number of the report in progress. When an apmReportControlEntry is activated, the first report will be numbered one."

::= { apmReportControlEntry 10 }

apmReportControlDeniedInserts OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The number of failed attempts to add an entry to reports for

this apmReportControlEntry  
because the number of entries  
would have exceeded apmReportControlGrantedSize.

This number is valuable in determining if enough entries have been allocated for reports in light of fluctuating network usage. Note that since an entry that is denied will often be attempted again, this number will not predict the exact number of additional entries needed, but can be used to understand the relative magnitude of the problem.

Also note that there is no ordering specified for the entries in the report, thus there are no rules for which entries will be omitted when not enough entries are available. As a consequence, the agent is not required to delete 'least valuable' entries first."

::= { apmReportControlEntry 11 }

apmReportControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames which were received by the agent and therefore not accounted for in the \*StatsDropEvents, but for which the agent chose not to count for this entry for whatever reason. Most often, this event occurs when the agent is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

This counter is only relevant if this apm report is based on a data source whose collection methodology is based on analyzing network traffic.

Note that if the apmReportTables are inactive because no applications are enabled in the application directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { apmReportControlEntry 12 }

apmReportControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { apmReportControlEntry 13 }

apmReportControlStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type of this apmReportControlEntry. If the value of this object is 'permanent', no objects in this row need to be writable."

::= { apmReportControlEntry 14 }

apmReportControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this apmReportControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value. The only objects in the entry that may be modified while the entry is in the active state are apmReportControlRequestedSize and apmReportControlRequestedReports.

If this object is not equal to active(1), all associated entries in the apmReportTable shall be deleted by the agent."

::= { apmReportControlEntry 15 }

-- The APM Report Table

apmReportTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmReportEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The data resulting from aggregated APM reports. Consult the definition of apmReportControlAggregationType for the definition of the various types of aggregations."

::= { apmMibObjects 10 }

apmReportEntry OBJECT-TYPE

SYNTAX ApmReportEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"A conceptual row in the apmReportTable.

The apmReportControlIndex value in the index identifies the apmReportControlEntry on whose behalf this entry was created.

The apmReportIndex value in the index identifies which report (in the series of reports) this

entry is a part of.

The apmAppDirAppLocalIndex value in the index identifies the common application of the transactions aggregated in this entry.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric reported by this entry and uniquely identifies this entry when more than one responsiveness metric is measured for a flow.

Entries will only exist in this table for those combinations of AppLocalIndex and ResponsivenessType that are configured 'on(1)'.

The protocolDirLocalIndex value in the index identifies the network layer protocol of the apmReportServerAddress.

When the associated apmReportControlAggregationType value is equal to applications(4) or clients(2), this protocolDirLocalIndex value will equal 0.

The apmReportServerAddress value in the index identifies the network layer address of the server in transactions

aggregated

in this entry.

The apmNameClientID value in the index identifies the client in transactions aggregated in this entry. If the associated apmReportControlAggregationType is equal to applications(4) or servers(3), then this protocolDirLocalIndex value will equal 0.

An example of the indexing of this entry is

apmReportTransactionCount.3.15.3.1.8.4.192.168.1.2.3232235788

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { apmReportControlIndex, apmReportIndex,  
        apmAppDirAppLocalIndex,  
        apmAppDirResponsivenessType,  
        protocolDirLocalIndex, apmReportServerAddress,  
        apmNameClientID }  
::= { apmReportTable 1 }
```

```
ApmReportEntry ::= SEQUENCE {  
    apmReportIndex
```

Unsigned32,  
apmReportServerAddress ProtocolDirNetworkAddress,

apmReportTransactionCount Unsigned32,  
apmReportSuccessfulTransactions Unsigned32,  
apmReportResponsivenessMean Unsigned32,  
apmReportResponsivenessMin Unsigned32,  
apmReportResponsivenessMax Unsigned32,  
apmReportResponsivenessB1 Unsigned32,  
apmReportResponsivenessB2 Unsigned32,  
apmReportResponsivenessB3 Unsigned32,  
apmReportResponsivenessB4 Unsigned32,  
apmReportResponsivenessB5 Unsigned32,  
apmReportResponsivenessB6 Unsigned32,  
apmReportResponsivenessB7 Unsigned32  
}

apmReportIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value of apmReportControlReportNumber for the report to  
which this entry belongs."

::= { apmReportEntry 1 }

apmReportServerAddress OBJECT-TYPE

SYNTAX

ProtocolDirNetworkAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network server address for this apmReportEntry.

This is represented as an octet string with  
specific semantics and length as identified  
by the protocolDirLocalIndex component of the index.

Since this object is an index variable, it is encoded in the  
index according to the index encoding rules. For example, if  
the protocolDirLocalIndex indicates an encapsulation of ip,  
this object is encoded as a length octet of 4, followed by the  
4 octets of the ip address, in network byte order. Care  
should be taken to avoid values of this object that, in  
conjunction with the other index variables, would result in an  
index longer than SNMP's maximum of 128 subidentifiers.

If the associated apmReportControlAggregationType is equal to applications(4) or clients(2), then this object will be a null string and will be encoded simply as a length octet of 0."  
 ::= { apmReportEntry 2 }

apmReportTransactionCount OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of transactions aggregated into this record."

::= { apmReportEntry 3 }

apmReportSuccessfulTransactions OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of successful transactions aggregated into this record."

::= { apmReportEntry 4 }

apmReportResponsivenessMean OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The arithmetic mean of the responsiveness metrics for all successful transactions aggregated into this record."

::= { apmReportEntry 5 }

apmReportResponsivenessMin OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The minimum of the responsiveness metrics for all successful transactions aggregated into this record."

::= { apmReportEntry 6 }

apmReportResponsivenessMax OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum of the responsiveness metrics for all successful transactions aggregated into this record."

::= { apmReportEntry 7 }

-- Note that when updating a report entry, a transaction will not be  
-- counted in more than 1 bucket in an entry. It will be counted in  
-- the first bucket that matches, starting with Bucket 1 (B1). Note  
-- that if a transaction matches 2 application types, it will update

-- one bucket in each of 2 entries in this table.

apmReportResponsivenessB1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record

whose responsiveness was less than boundary1 value for this application."

::= { apmReportEntry 8 }

apmReportResponsivenessB2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Bucket 1 and was greater than or equal to the boundary1 value for this application and less than the boundary2 value for this application."

::= { apmReportEntry 9 }

apmReportResponsivenessB3 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Bucket 1 or 2 and as greater than or equal to the boundary2 value for this application and less than the boundary3 value for this



application."  
::= { apmReportEntry  
10 }

apmReportResponsivenessB4 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 3 and was greater than or equal to the boundary3 value for this application and less than the boundary4 value for this application."

::= { apmReportEntry 11 }

apmReportResponsivenessB5 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 4 and was greater than or equal to the boundary4 value for this application and less than the boundary5 value for this application."

::= { apmReportEntry 12 }

apmReportResponsivenessB6 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 5 and was greater than or equal to the boundary5 value for this application and less than the boundary6 value for this application."

::= { apmReportEntry 13 }

apmReportResponsivenessB7 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 6 and was greater than or equal to the boundary6 value for this application."

::= { apmReportEntry 14 }

-- APM Transaction Table

apmTransactionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmTransactionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains transactions that are currently running

or have recently finished."

::= { apmMibObjects 11 }

apmTransactionEntry OBJECT-TYPE

SYNTAX ApmTransactionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmTransactionTable.

The apmAppDirAppLocalIndex value in the index identifies the application of the transaction represented by this entry.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric reported by this entry and uniquely identifies this entry when more than one responsiveness metric is measured for a flow.

Entries will only exist in this table for those combinations of AppLocalIndex and ResponsivenessType that are configured 'on(1)'.  
The protocolDirLocalIndex value in the index identifies the network layer protocol of the apmTransactionServerAddress.

The apmTransactionServerAddress value in the index identifies

the network layer address of the server in the transaction represented by this entry.

The apmNameClientID value in the index identifies the client in the transaction represented by this entry.

An example of the indexing of this entry is

apmTransactionCount.3.1.8.4.192.168.1.2.3232235788.2987

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { apmAppDirAppLocalIndex,  
        apmAppDirResponsivenessType,  
        protocolDirLocalIndex, apmTransactionServerAddress,  
        apmNameClientID, apmTransactionID }  
 ::= { apmTransactionTable 1 }
```

```
ApmTransactionEntry ::= SEQUENCE {  
    apmTransactionServerAddress ProtocolDirNetworkAddress,  
    apmTransactionID  
    Unsigned32,  
    apmTransactionResponsiveness Unsigned32,  
    apmTransactionAge TimeInterval,  
    apmTransactionSuccess TruthValue  
}
```

```
apmTransactionServerAddress OBJECT-TYPE  
SYNTAX ProtocolDirNetworkAddress (SIZE (1..255))  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"The network server address for this apmTransactionEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index. This object may not be the zero length string.

For example, if the protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order. Care should be taken to avoid values of this object that, in conjunction with the other index variables, would result in an index longer than

SNMP's maximum of 128 subidentifiers."

```
::= { apmTransactionEntry 1 }
```

```
apmTransactionID OBJECT-TYPE  
SYNTAX Unsigned32 (0..4294967295)  
MAX-ACCESS not-accessible
```

STATUS current

DESCRIPTION

"A unique value for this transaction amongst other transactions sharing the same application layer protocol and server and client addresses. Implementations may choose to use the value of the client's source port, when possible."

::= { apmTransactionEntry 2 }

apmTransactionResponsiveness OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current value of the responsiveness metric for this transaction. If this transaction has completed, the final value of the metric will be available.

Note that this value may change over the lifetime of the transaction and it is the final value of this metric that is recorded as the responsiveness

of the transaction for use in

other APM MIB functions."

::= { apmTransactionEntry 3 }

apmTransactionAge OBJECT-TYPE

SYNTAX TimeInterval

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If this transaction is still executing, this value shall be

the length of time since it was started. If it has completed, this value shall be the length of time it was executing."

::= { apmTransactionEntry 4 }

apmTransactionSuccess OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The success of this transaction up to this time. Once a transaction has been marked as failed, it cannot move back into the successful state."

::= { apmTransactionEntry 5 }

apmTransactionsRequestedHistorySize OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The maximum number of completed transactions desired to be retained in the apmTransactionTable. If the agent doesn't have enough resources to retain this many, it will retain as many as possible. Regardless of this value, the agent must attempt to keep records for all current transactions it is monitoring.

The value of this object must persist across reboots."

::= { apmMibObjects 12 }

-- The APM Exception table  
-- The APM Exception Table creates filters so that a management station can get immediate notification of a transaction that has had poor availability or responsiveness.  
--  
-- This function is particularly helpful in unaggregated situations where the numbers of agents is relatively high and the transaction rate per agent is relatively low (such as agents for desktops or dedicated to small workgroups). Polling agents in such an environment would either cause scalability problems (high rate) or lead to long notification delays (low rate).

apmExceptionTable

OBJECT-TYPE

SYNTAX SEQUENCE OF ApmExceptionEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"This table creates filters so that a management station can get immediate notification of a transaction that has had poor

availability or responsiveness.

Each apmExceptionEntry is associated with a particular type of transaction and is applied to all transactions of that type. Multiple apmExceptionEntries may be associated with a particular type of transaction. A transaction type is identified by the value of the apmAppDirAppLocalIndex component of the index.

Because the quality of a transaction is not known until it is

completed, these thresholds are only applied after the transaction has completed."

::= { apmMibObjects 13 }

apmExceptionEntry OBJECT-TYPE

SYNTAX ApmExceptionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmExceptionTable.

The apmAppDirAppLocalIndex value in the index identifies the application this entry will monitor.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric this entry will monitor."

INDEX { apmAppDirAppLocalIndex,  
apmAppDirResponsivenessType, apmExceptionIndex }

::= { apmExceptionTable 1 }

ApmExceptionEntry ::= SEQUENCE {

apmExceptionIndex Unsigned32,  
apmExceptionResponsivenessComparison INTEGER,  
apmExceptionResponsivenessThreshold Unsigned32,  
apmExceptionUnsuccessfulException INTEGER,  
apmExceptionResponsivenessEvents Counter32,  
apmExceptionUnsuccessfulEvents Counter32,  
apmExceptionOwner OwnerString,  
apmExceptionStorageType StorageType,  
apmExceptionStatus RowStatus

}

apmExceptionIndex

OBJECT-TYPE

SYNTAX Unsigned32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the apmExceptionTable amongst other entries with equivalent index values for apmAppDirAppLocalIndex and apmAppDirResponsivenessType. Each such entry sets up thresholds for a particular measurement of a particular application."

::= { apmExceptionEntry 1 }

apmExceptionResponsivenessComparison OBJECT-TYPE

SYNTAX INTEGER {  
    none(1),  
    greater(2),  
    less(3)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"If this value is greater(2) or less(3), the associated apmExceptionResponsivenessThreshold will be compared to this value and an exception will be created if the responsiveness is greater than the threshold (greater(2)) or less than the threshold (less(3))."

::= { apmExceptionEntry 2 }

apmExceptionResponsivenessThreshold OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The threshold that responsiveness metrics are compared to."

::= { apmExceptionEntry 3 }

apmExceptionUnsuccessfulException OBJECT-TYPE

SYNTAX INTEGER {  
    off(1),  
    on(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"If this value is on(2), an exception will be created if a transaction of the associated type is unsuccessful."

::= { apmExceptionEntry 4 }

apmExceptionResponsivenessEvents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of responsiveness exceptions generated. This counter will be incremented even if no notification was sent"

due to notifications not being  
configured or due to exceeding  
the apmNotificationMaxRate value."  
::= { apmExceptionEntry 5 }

apmExceptionUnsuccessfulEvents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of unsuccessful exceptions generated. This  
counter will be incremented even if no notification was sent  
due to notifications not being configured or due to exceeding  
the apmNotificationMaxRate value."

::= { apmExceptionEntry 6 }

apmExceptionOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is  
therefore using the resources assigned to it."

::= { apmExceptionEntry 7 }

apmExceptionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type of this apmReportControlEntry. If the value  
of this object is 'permanent', no objects in this row need to  
be writable."

::= { apmExceptionEntry 8 }

apmExceptionStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this apmExceptionEntry. The only objects in the  
entry that may be modified while the entry is in the active  
state are apmExceptionResponsivenessComparison,  
apmExceptionResponsivenessThreshold and  
apmExceptionUnsuccessfulException."

::= { apmExceptionEntry 9 }



apmThroughputExceptionMinTime OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Because the responsiveness for throughput-oriented transactions is divided by the elapsed time, it can be very sensitive to short-term performance variations for transactions that take a short period of time. For example, when downloading

a very short file, a single dropped packet could double or triple the total response time.

Further, throughput is usually examined for applications that transfer a lot of data, and when doing so it is helpful to conceptualize transaction costs that are proportional to the amount of data separately from those costs that are relatively fixed (i.e., independent of the amount of data). For very short transactions, these fixed transaction costs (handshake, setup time, authentication, round-trip time) may dominate the total response time for the transaction, resulting in throughput measurements that aren't really proportional to the network's, server's and client's combined data throughput capability.

This object controls the minimum number of seconds that an throughput-based transaction must exceed before an exception can be generated for it. If this object is set to zero, then all throughput-based transactions are candidates for exceptions.

The value of this object must persist across reboots."

DEFVAL { 10 }

::= { apmMibObjects 14 }

apmNotificationMaxRate OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of notifications that can be generated from this agent by the apmExceptionTable in any 60 second period.

The value of this object must persist across reboots."

DEFVAL { 1 }

::= { apmMibObjects 15 }

-- APM Notifications

apmNotifications OBJECT IDENTIFIER ::= { apm 0 }

apmTransactionResponsivenessAlarm NOTIFICATION-TYPE

OBJECTS { apmExceptionResponsivenessThreshold,  
apmTransactionResponsiveness }

STATUS current

DESCRIPTION

"Notification sent when a transaction exceeds a threshold defined in the apmException table. The index of the

included apmExceptionResponsivenessThreshold object identifies the apmExceptionEntry that specified the threshold. The apmTransactionResponsiveness variable identifies the actual transaction and its responsiveness.

Agent implementors are urged to include additional data objects in the alarm that may explain the reason for the alarm. It is helpful to include such data in the alarm because it describes the situation at the time the alarm was generated, where polls after the fact may not provide meaningful information. Examples of such information are CPU load, memory utilization, network utilization, and transaction statistics."

::= { apmNotifications 1 }

apmTransactionUnsuccessfulAlarm NOTIFICATION-TYPE

OBJECTS { apmExceptionResponsivenessThreshold }

STATUS current

DESCRIPTION

"Notification sent when a transaction is unsuccessful.

The index of the included

apmExceptionResponsivenessThreshold

object identifies both the type of the transaction that caused this notification as well as the apmExceptionEntry that specified the threshold.

Agent implementors are urged to include additional data objects in the alarm that may explain the reason for the alarm. It is helpful to include such data in the alarm because

it describes the situation at the time the alarm was generated, where polls after the fact may not provide meaningful information. Examples of such information are CPU load, memory utilization, network utilization, and transaction statistics."

::= { apmNotifications 2 }

apmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the APM MIB"

MODULE -- this module

MANDATORY-GROUPS { apmAppDirGroup, apmReportGroup }

GROUP apmUserDefinedApplicationsGroup

DESCRIPTION

"Implementation of the apmUserDefinedApplicationsGroup is optional."

GROUP apmTransactionGroup

DESCRIPTION

"Implementation of the apmTransactionGroup is optional."

GROUP apmExceptionGroup

DESCRIPTION

"Implementation of the apmExceptionGroup is optional."

GROUP apmNotificationGroup

DESCRIPTION

"Implementation of the apmNotificationGroup is optional."

::= { apmCompliances 1 }

apmAppDirGroup OBJECT-GROUP

OBJECTS { apmAppDirConfig,  
apmAppDirResponsivenessBoundary1,  
apmAppDirResponsivenessBoundary2,  
apmAppDirResponsivenessBoundary3,  
apmAppDirResponsivenessBoundary4,  
apmAppDirResponsivenessBoundary5,  
apmAppDirResponsivenessBoundary6,  
apmBucketBoundaryLastChange, apmAppDirID,  
apmNameMachineName, apmNameUserName }

STATUS

current

DESCRIPTION

"The APM MIB directory of applications and application verbs."

::= { apmGroups 1 }

apmUserDefinedApplicationsGroup OBJECT-GROUP

OBJECTS { apmHttpFilterAppLocalIndex,  
apmHttpFilterServerProtocol,  
apmHttpFilterServerAddress, apmHttpFilterURLPath,  
apmHttpFilterMatchType, apmHttpFilterOwner,  
apmHttpFilterStorageType, apmHttpFilterRowStatus,  
apmHttpIgnoreUnregisteredURLs, apmHttp4xxIsFailure,  
apmUserDefinedAppParentIndex,

apmUserDefinedAppApplication }

STATUS current

DESCRIPTION

"Objects used for creating and managing user-defined applications."

::= { apmGroups 2 }

apmReportGroup OBJECT-GROUP

OBJECTS { apmReportControlDataSource,  
apmReportControlAggregationType,  
apmReportControlInterval,  
apmReportControlRequestedSize,  
apmReportControlGrantedSize,  
apmReportControlRequestedReports,  
apmReportControlGrantedReports,  
apmReportControlStartTime,  
apmReportControlReportNumber,  
apmReportControlDeniedInserts,  
apmReportControlDroppedFrames,  
apmReportControlOwner,  
apmReportControlStorageType,  
apmReportControlStatus,  
apmReportTransactionCount,  
apmReportSuccessfulTransactions,  
apmReportResponsivenessMean,  
apmReportResponsivenessMin,  
apmReportResponsivenessMax,  
apmReportResponsivenessB1,  
apmReportResponsivenessB2,  
apmReportResponsivenessB3,  
apmReportResponsivenessB4,  
apmReportResponsivenessB5,

```

        apmReportResponsivenessB6,
        apmReportResponsivenessB7 }
STATUS current
DESCRIPTION
    "The apm report group controls the creation
and retrieval of
    reports that aggregate application performance."
::= { apmGroups 3 }

apmTransactionGroup OBJECT-GROUP
OBJECTS { apmTransactionResponsiveness,
        apmTransactionAge, apmTransactionSuccess,
        apmTransactionsRequestedHistorySize }
STATUS current
DESCRIPTION
    "The apm transaction group contains statistics for
individual transactions."

::= { apmGroups 4 }

apmExceptionGroup OBJECT-GROUP
OBJECTS { apmExceptionResponsivenessComparison,
        apmExceptionResponsivenessThreshold,
        apmExceptionUnsuccessfulException,
        apmExceptionResponsivenessEvents,
        apmExceptionUnsuccessfulEvents,
        apmExceptionOwner, apmExceptionStorageType,
        apmExceptionStatus, apmThroughputExceptionMinTime,
        apmNotificationMaxRate }
STATUS current
DESCRIPTION
    "The apm exception group causes notifications to be sent
whenever
transactions are detected that had poor availability
    or responsiveness."
::= { apmGroups 5 }

apmNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS { apmTransactionResponsivenessAlarm,
        apmTransactionUnsuccessfulAlarm }
STATUS current
DESCRIPTION
    "Notifications sent by an APM MIB agent."
::= { apmGroups 6 }

END

```

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB

No license file was found, but licenses were detected in source scan.

SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY, OBJECT-TYPE,  
-- OBJECT-IDENTITY,  
experimental, Integer32  
    FROM SNMPv2-SMI  
TEXTUAL-CONVENTION  
    FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP  
    FROM SNMPv2-CONF  
usmUserEntry  
    FROM SNMP-USER-BASED-SM-MIB  
SnmAdminString  
    FROM SNMP-FRAMEWORK-MIB;
```

snmpUsmDHObjectsMIB MODULE-IDENTITY

```
LAST-UPDATED "200003060000Z" -- 6 March 2000, Midnight  
ORGANIZATION "Excite@Home"  
CONTACT-INFO "Author: Mike StJohns  
    Postal: Excite@Home  
    450 Broadway  
    Redwood City, CA 94063  
    Email: stjohs@corp.home.net  
    Phone: +1-650-556-5368"
```

DESCRIPTION

"The management information definitions for providing forward secrecy for key changes for the usmUserTable, and for providing a method for 'kickstarting' access to the agent via a Diffie-Helman key agreement."

REVISION "200003060000Z"

DESCRIPTION

"Initial version published as RFC 2786."

::= { experimental 101 } -- IANA DHKEY-CHANGE 101

-- Administrative assignments

usmDHKeyObjects OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 1 }

usmDHKeyConformance OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 2 }

-- Textual conventions

DHKeyChange ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Upon initialization, or upon creation of a row containing an object of this type, and after any successful SET of this value, a GET of this value returns 'y' where  $y = g^{xa} \text{ MOD } p$ , and where g is the base from usmDHParameters, p is the prime from usmDHParameters, and xa is a new random integer selected by the agent in the interval  $2^{(l-1)} \leq xa < 2^l < p-1$ . 'l' is the optional privateValueLength from usmDHParameters in bits. If 'l' is omitted,

then xa (and xr below) is selected in the interval 0

$\leq xa < p-1$ . y is expressed as an OCTET STRING 'PV' of length 'k' which satisfies

$$y = \sum_{i=1}^k 2^{8(k-i)} PV^i$$

where PV1,...,PVk are the octets of PV from first to last, and where  $PV1 \neq 0$ .

A successful SET consists of the value 'y' expressed as an OCTET STRING as above concatenated with the value 'z'(expressed as an OCTET STRING in the same manner as y) where  $z = g^{xr} \text{ MOD } p$ , where g, p and l are as above, and where xr is a new random integer selected by the manager in the interval  $2^{(l-1)} \leq xr < 2^l < p-1$ . A SET to an object of this type will fail with the error wrongValue if the current 'y' does not match the 'y' portion of the value of the varbind for the object. (E.g. GET yout, SET concat(yin, z), yout  $\neq$  yin).

Note that the private values xa and xr are never transmitted from manager to device or vice versa, only the values y and z.

Obviously, these values must be retained until a successful SET on the associated object.

The shared secret 'sk' is calculated at the agent as  $sk = z^{xa} \text{ MOD } p$ , and at the manager as  $sk = y^{xr} \text{ MOD } p$ .

Each object definition of this type MUST describe how to map from the shared secret 'sk' to the operational key value used by the protocols and operations related to the object. In general, if n

bits of key are required, the author suggests using the n right-most bits of the shared secret as the operational key value."

REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3;  
RSA Laboratories, November 1993"

SYNTAX OCTET STRING

-- Diffie Hellman public values

usmDHPublicObjects OBJECT IDENTIFIER ::= { usmDHKeyObjects 1 }

usmDHParameters OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The public Diffie-Hellman parameters for doing a Diffie-Hellman key agreement for this device. This is encoded as an ASN.1 DHPParameter per PKCS #3, section 9. E.g.

```
DHPParameter ::= SEQUENCE {  
    prime INTEGER, -- p  
    base INTEGER, -- g  
    privateValueLength INTEGER OPTIONAL }
```

Implementors are encouraged to use either the values from Oakley Group 1 or the values of from Oakley Group 2 as specified in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the default for this object. Other values may be used, but the security properties of those values MUST be well understood and MUST meet the requirements of PKCS #3 for the selection of Diffie-Hellman primes.

In addition, any time usmDHParameters changes, all values of type DHKeyChange will change and new random numbers MUST be generated by the agent for each DHKeyChange object."

REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3,  
RSA Laboratories,  
November 1993

-- The Internet Key Exchange, RFC 2409, November 1998,  
Sec 6.1, 6.2"

::= { usmDHPublicObjects 1 }

usmDHUserKeyTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHUserKeyEntry



MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table augments and extends the usmUserTable and provides 4 objects which exactly mirror the objects in that table with the textual convention of 'KeyChange'. This extension allows key changes to be done in a manner where the knowledge of the current secret plus knowledge of the key change data exchanges (e.g. via wiretapping) will not reveal the new key."

::= { usmDHPublicObjects 2 }

usmDHUserKeyEntry OBJECT-TYPE

SYNTAX UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of DHKeyChange objects which augment or replace the functionality of the KeyChange objects in the base table row."

AUGMENTS { usmUserEntry }

::= { usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {

usmDHUserAuthKeyChange DHKeyChange,

usmDHUserOwnAuthKeyChange DHKeyChange,

usmDHUserPrivKeyChange DHKeyChange,

usmDHUserOwnPrivKeyChange DHKeyChange

}

usmDHUserAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agents own Authentication Key

using a Diffie-Hellman  
key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."  
::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The object used to change any given user's Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."  
::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The object used to change the agent's own Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."  
::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

usmDHKickstartTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHKickstartEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"A table of mappings between zero or more Diffie-Helman key agreement values and entries in the usmUserTable. Entries in this table are created by providing the associated device with a Diffie-Helman public value and a usmUserName/usmUserSecurityName

pair during initialization. How these values are provided is outside the scope of this MIB, but could be provided manually, or through a configuration file. Valid public value/name pairs result in the creation of a row in this table as well as the creation of an associated row (with keys derived as indicated) in the usmUserTable. The actual access the related usmSecurityName has is dependent on the entries in the VACM tables. In general, an implementor will specify one or more standard security names and will provide entries in the VACM tables granting various levels of access to those names. The actual content of the VACM table is beyond the scope of this MIB.

Note: This table is expected to be readable without authentication using the usmUserSecurityName 'dhKickstart'. See the conformance statements for details."

::= { usmDhKickstartGroup 1 }

usmDhKickstartEntry OBJECT-TYPE

SYNTAX UsmDhKickstartEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the usmDhKickstartTable. The agent SHOULD either delete this entry or mark it as inactive upon a successful SET of any of the KeyChange-typed objects in the usmUserEntry or upon a successful SET of any of the DhKeyChange-typed objects in the usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of usmUserTable or row of usmDhKeyChangeTable) equals this entry's usmDhKickstartSecurityName. In otherwords, once you've changed one or more of the keys for a row in usmUserTable with a particular security name, the row in this table with that same security name is no longer useful or meaningful."

INDEX { usmDhKickstartIndex }

::= { usmDhKickstartTable 1 }

UsmDhKickstartEntry ::= SEQUENCE {

usmDhKickstartIndex Integer32,

usmDhKickstartMyPublic OCTET STRING,

usmDhKickstartMgrPublic OCTET STRING,

usmDhKickstartSecurityName SnmpAdminString

}

usmDhKickstartIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index value for  
this row."  
 ::= { usmDhKickstartEntry 1 }

usmDhKickstartMyPublic OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The agent's Diffie-Hellman public value for this row. At initialization, the agent generates a random number and derives its public value from that number. This public value is published here. This public value 'y' equals  $g^r \text{ MOD } p$  where  $g$  is the from the set of Diffie-Hellman parameters,  $p$  is the prime from those parameters, and  $r$  is a random integer selected by the agent in the interval  $2^{(l-1)} \leq r < p-1 < 2^l$ . If  $l$  is unspecified, then  $r$  is a random integer selected in the interval  $0 \leq r < p-1$

The public value is expressed as an OCTET STRING 'PV' of length 'k' which satisfies

$$y = \sum_{i=1}^k 2^{8(k-i)} PV^i$$

where  $PV_1, \dots, PV_k$  are the octets of PV from first to last, and where  $PV_1 \neq 0$ .

The following

DH parameters (Oakley group #2, RFC 2409, sec 6.1, 6.2) are used for this object:

$g = 2$

$p =$  FFFFFFFF FFFFFFFF C90FDAA2 2168C234 C4C6628B 80DC1CD1  
29024E08 8A67CC74 020BBEA6 3B139B22 514A0879 8E3404DD  
EF9519B3 CD3A431B 302B0A6D F25F1437 4FE1356D 6D51C245  
E485B576 625E7EC6 F44C42E9 A637ED6B 0BFF5CB6 F406B7ED  
EE386BFB 5A899FA5 AE9F2411 7C4B1FE6 49286651 ECE65381  
FFFFFFFF FFFFFFFF

$l=1024$

"

REFERENCE

- Diffie-Hellman Key-Agreement Standard, PKCS#3v1.4;  
RSA Laboratories, November 1993
- The Internet Key Exchange, RFC2409;

Harkins, D., Carrel, D.; November 1998"

::= { usmDHKickstartEntry 2 }

usmDHKickstartMgrPublic OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The manager's Diffie-Hellman public value for this row. Note that this value is not set via the SNMP agent, but may be set via some out of band method, such as the device's configuration file.

The manager calculates this value in the same manner and using the same parameter set as the agent does. E.g. it selects a random number 'r', calculates  $y = g^r \text{ mod } p$  and provides 'y' as the public number expressed as an OCTET STRING. See usmDHKickstartMyPublic for details.

When this object is set with a valid value during initialization, a row is created in the usmUserTable with the following values:

|                         |                                       |
|-------------------------|---------------------------------------|
| usmUserEngineID         | localEngineID                         |
| usmUserName             | [value of usmDHKickstartSecurityName] |
| usmUserSecurityName     | [value of usmDHKickstartSecurityName] |
| usmUserCloneFrom        | ZeroDotZero                           |
| usmUserAuthProtocol     | usmHMACMD5AuthProtocol                |
| usmUserAuthKeyChange    | -- derived from set value             |
| usmUserOwnAuthKeyChange | -- derived from set value             |
| usmUserPrivProtocol     | usmDESPrivProtocol                    |
| usmUserPrivKeyChange    | -- derived from set value             |
| usmUserOwnPrivKeyChange | -- derived from set value             |
| usmUserPublic           | "                                     |
| usmUserStorageType      | permanent                             |
| usmUserStatus           | active                                |

A shared secret 'sk' is calculated at the agent as  $sk = mgrPublic^r \text{ mod } p$  where r is the agents random number and p is the DH prime from the common parameters. The underlying privacy key for this row is derived from sk by applying the key derivation function PBKDF2 defined in PKCS#5v2.0 with a salt of 0xd1310ba6, and iterationCount of 500, a keyLength of 16 (for usmDESPrivProtocol), and a prf (pseudo random function) of 'id-hmacWithSHA1'. The underlying authentication key for this row is derived from sk by applying the key derivation function PBKDF2 with a salt of 0x98dfb5ac, an iteration count of 500, a keyLength of 16 (for usmHMAC5AuthProtocol), and a prf of 'id-hmacWithSHA1'. Note: The salts are the first two words in the

ks0 [key schedule 0] of the BLOWFISH cipher from 'Applied Cryptography' by Bruce Schneier - they could be any relatively random string of bits.

The manager can use its knowledge of its own random number and the agent's public value to kickstart its access to the agent in a secure manner. Note that the security of this approach is directly related to the strength of the authorization security of the out of band provisioning of the managers public value (e.g. the configuration file), but is not dependent at all on the strength of the confidentiality of the out of band provisioning data."

#### REFERENCE

- Password-Based Cryptography Standard, PKCS#5v2.0; RSA Laboratories, March 1999
- Applied Cryptography, 2nd Ed.; B. Schneier, Counterpane Systems; John Wiley & Sons, 1996"

::= { usmDhKickstartEntry 3 }

usmDhKickstartSecurityName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The usmUserName and usmUserSecurityName in the usmUserTable associated with this row. This is provided in the same manner and at the same time as the usmDhKickstartMgrPublic value - e.g. possibly manually, or via the device's configuration file."

::= { usmDhKickstartEntry 4 }

-- Conformance Information

usmDhKeyMIBCompliances OBJECT IDENTIFIER ::= { usmDhKeyConformance 1 }

usmDhKeyMIBGroups OBJECT IDENTIFIER ::= { usmDhKeyConformance 2 }

-- Compliance statements

usmDhKeyMIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for this module."

MODULE

GROUP usmDhKeyMIBBasicGroup

DESCRIPTION

"This group MAY be implemented by any agent which implements the usmUserTable and which wishes to provide the ability to change user and agent authentication and privacy

keys via Diffie-Hellman key exchanges."

GROUP usmDHKeyParamGroup

DESCRIPTION

"This group MUST be implemented by any agent which implements a MIB containing the DHKeyChange Textual Convention defined in this module."

GROUP usmDHKeyKickstartGroup

DESCRIPTION

"This group MAY be implemented by any agent which implements the usmUserTable and which wishes the ability to populate the USM table based on out-of-band provided DH ignition values.

Any agent implementing this group is expected to provide preinstalled entries in the vacm tables as follows:

In the usmUserTable: This entry allows access to the system and dhKickstart groups

```
usmUserEngineID    localEngineID
usmUserName        'dhKickstart'
usmUserSecurityName 'dhKickstart'
usmUserCloneFrom   ZeroDotZero
usmUserAuthProtocol none
usmUserAuthKeyChange "
usmUserOwnAuthKeyChange "
usmUserPrivProtocol
none
usmUserPrivKeyChange "
usmUserOwnPrivKeyChange "
usmUserPublic      "
usmUserStorageType permanent
usmUserStatus      active
```

In the vacmSecurityToGroupTable: This maps the initial user into the accessible objects.

```
vacmSecurityModel    3 (USM)
vacmSecurityName     'dhKickstart'
vacmGroupName        'dhKickstart'
vacmSecurityToGroupStorageType permanent
vacmSecurityToGroupStatus active
```

In the vacmAccessTable: Group name to view name translation.

```
vacmGroupName        'dhKickstart'
vacmAccessContextPrefix "
```

```

vacmAccessSecurityModel      3 (USM)
vacmAccessSecurityLevel     noAuthNoPriv
vacmAccessContextMatch      exact
vacmAccessReadViewName      'dhKickRestricted'
vacmAccessWriteViewName     "
vacmAccessNotifyViewName    'dhKickRestricted'
vacmAccessStorageType       permanent
vacmAccessStatus            active

```

In the vacmViewTreeFamilyTable: Two entries to allow the initial entry to access the system and kickstart groups.

```

vacmViewTreeFamilyViewName  'dhKickRestricted'
vacmViewTreeFamilySubtree   1.3.6.1.2.1.1 (system)
vacmViewTreeFamilyMask     "
vacmViewTreeFamilyType     1
vacmViewTreeFamilyStorageType permanent
vacmViewTreeFamilyStatus   active

```

```

vacmViewTreeFamilyViewName  'dhKickRestricted'
vacmViewTreeFamilySubtree   (usmDHKickstartTable OID)
vacmViewTreeFamilyMask     "
vacmViewTreeFamilyType     1
vacmViewTreeFamilyStorageType permanent
vacmViewTreeFamilyStatus   active
"

```

```

OBJECT usmDHParameters
MIN-ACCESS read-only
DESCRIPTION

```

"It

is compliant to implement this object as read-only for any device."

```

::= { usmDHKeyMIBCompliances 1 }

```

-- Units of Compliance

```

usmDHKeyMIBBasicGroup OBJECT-GROUP

```

```

OBJECTS {
    usmDHUserAuthKeyChange,
    usmDHUserOwnAuthKeyChange,
    usmDHUserPrivKeyChange,
    usmDHUserOwnPrivKeyChange
}

```

```

STATUS current

```

```

DESCRIPTION

```



```

""
 ::= { usmDHKeyMIBGroups 1 }

usmDHKeyParamGroup OBJECT-GROUP
OBJECTS {
    usmDHParameters
}
STATUS current
DESCRIPTION
    "The mandatory object for all MIBs which use the DHKeyChange
    textual convention."
 ::= { usmDHKeyMIBGroups 2 }

usmDHKeyKickstartGroup OBJECT-GROUP
OBJECTS {
    usmDHKickstartMyPublic,
    usmDHKickstartMgrPublic,
    usmDHKickstartSecurityName
}
STATUS current
DESCRIPTION
    "The objects used
    for kickstarting one or more SNMPv3 USM
    associations via a configuration file or other out of band,
    non-confidential access."
 ::= { usmDHKeyMIBGroups 3 }

```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB

No license file was found, but licenses were detected in source scan.

IANAifType-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2 FROM SNMPv2-SMI  
 TEXTUAL-CONVENTION FROM SNMPv2-TC;

ianaifType MODULE-IDENTITY

LAST-UPDATED "200709130000Z" -- September 13, 2007  
 ORGANIZATION "IANA"  
 CONTACT-INFO " Internet Assigned Numbers Authority

Postal: ICANN  
 4676 Admiralty Way, Suite 330

Marina del Rey, CA 90292

Tel: +1 310 823 9358

E-Mail: iana&iana.org"

DESCRIPTION "This MIB module defines the IANAifType Textual Convention, and thus the enumerated values of the ifType object defined in MIB-II's ifTable."

REVISION "200709130000Z" -- September 13, 2007

DESCRIPTION "Registration of new IANAifTypes 243 and 244."

REVISION "200705290000Z"

-- May 29, 2007

DESCRIPTION "Changed the description for IANAifType 228."

REVISION "200703080000Z" -- March 08, 2007

DESCRIPTION "Registration of new IANAifType 242."

REVISION "200701230000Z" -- January 23, 2007

DESCRIPTION "Registration of new IANAifTypes 239, 240, and 241."

REVISION "200610170000Z" -- October 17, 2006

DESCRIPTION "Deprecated/Obsoleted IANAifType 230. Registration of IANAifType 238."

REVISION "200609250000Z" -- September 25, 2006

DESCRIPTION "Changed the description for IANA ifType 184 and added new IANA ifType 237."

REVISION "200608170000Z" -- August 17, 2006

DESCRIPTION "Changed the descriptions for IANAifTypes 20 and 21."

REVISION "200608110000Z" -- August 11, 2006

DESCRIPTION "Changed the descriptions for IANAifTypes 7, 11, 62, 69, and 117."

REVISION "200607250000Z" -- July 25, 2006

DESCRIPTION "Registration of new IANA ifType 236."

REVISION "200606140000Z" -- June 14, 2006

DESCRIPTION "Registration of new IANA ifType 235."

REVISION "200603310000Z" -- March 31, 2006

DESCRIPTION "Registration of new IANA ifType 234."

REVISION "20060330000Z" -- March 30, 2006  
DESCRIPTION "Registration of new IANA ifType 233."

REVISION "200512220000Z" -- December 22, 2005  
DESCRIPTION "Registration of new IANA ifTypes 231 and 232."

REVISION "200510100000Z" -- October 10, 2005  
DESCRIPTION "Registration of new IANA ifType 230."

REVISION "200509090000Z" -- September 09, 2005  
DESCRIPTION "Registration of new IANA ifType 229."

REVISION "200505270000Z" -- May 27, 2005  
DESCRIPTION "Registration of new IANA ifType 228."

REVISION "200503030000Z"  
-- March 3, 2005  
DESCRIPTION "Added the IANAtunnelType TC and deprecated  
IANAifType sixToFour (215) per RFC4087."

REVISION "200411220000Z" -- November 22, 2004  
DESCRIPTION "Registration of new IANA ifType 227 per RFC4631."

REVISION "200406170000Z" -- June 17, 2004  
DESCRIPTION "Registration of new IANA ifType 226."

REVISION "200405120000Z" -- May 12, 2004  
DESCRIPTION "Added description for IANAifType 6, and  
changed the descriptions for IANAifTypes  
180, 181, and 182."

REVISION "200405070000Z" -- May 7, 2004  
DESCRIPTION "Registration of new IANAifType 225."

REVISION "200308250000Z" -- Aug 25, 2003  
DESCRIPTION "Deprecated IANAifTypes 7 and 11. Obsoleted  
IANAifTypes 62, 69, and 117. ethernetCsmacd (6)  
should be used instead of these values"

REVISION "200308180000Z"  
-- Aug 18, 2003  
DESCRIPTION "Registration of new IANAifType  
224."

REVISION "200308070000Z" -- Aug 7, 2003  
DESCRIPTION "Registration of new IANAifTypes  
222 and 223."

REVISION "200303180000Z" -- Mar 18, 2003  
DESCRIPTION "Registration of new IANAifType  
221."

REVISION "200301130000Z" -- Jan 13, 2003  
DESCRIPTION "Registration of new IANAifType  
220."

REVISION "200210170000Z" -- Oct 17, 2002  
DESCRIPTION "Registration of new IANAifType  
219."

REVISION "200207160000Z" -- Jul 16, 2002  
DESCRIPTION "Registration of new IANAifTypes  
217 and 218."

REVISION "200207100000Z" -- Jul 10, 2002  
DESCRIPTION "Registration of new IANAifTypes  
215 and 216."

REVISION "200206190000Z" -- Jun 19, 2002  
DESCRIPTION "Registration  
of new IANAifType  
214."

REVISION "200201040000Z" -- Jan 4, 2002  
DESCRIPTION "Registration of new IANAifTypes  
211, 212 and 213."

REVISION "200112200000Z" -- Dec 20, 2001  
DESCRIPTION "Registration of new IANAifTypes  
209 and 210."

REVISION "200111150000Z" -- Nov 15, 2001  
DESCRIPTION "Registration of new IANAifTypes  
207 and 208."

REVISION "200111060000Z" -- Nov 6, 2001  
DESCRIPTION "Registration of new IANAifType  
206."

REVISION "200111020000Z" -- Nov 2, 2001  
DESCRIPTION "Registration of new IANAifType  
205."

REVISION "200110160000Z" -- Oct 16, 2001  
DESCRIPTION "Registration of new IANAifTypes  
199, 200, 201, 202, 203, and 204."

REVISION "200109190000Z" -- Sept 19, 2001  
DESCRIPTION "Registration  
of new IANAifType  
198."

REVISION "200105110000Z" -- May 11, 2001  
DESCRIPTION "Registration of new IANAifType  
197."

REVISION "200101120000Z" -- Jan 12, 2001  
DESCRIPTION "Registration of new IANAifTypes  
195 and 196."

REVISION "200012190000Z" -- Dec 19, 2000  
DESCRIPTION "Registration of new IANAifTypes  
193 and 194."

REVISION "200012070000Z" -- Dec 07, 2000  
DESCRIPTION "Registration of new IANAifTypes  
191 and 192."

REVISION "200012040000Z" -- Dec 04, 2000  
DESCRIPTION "Registration of new IANAifType  
190."

REVISION "200010170000Z" -- Oct 17, 2000  
DESCRIPTION "Registration of new IANAifTypes  
188 and 189."

REVISION "200010020000Z" -- Oct 02, 2000  
DESCRIPTION "Registration of new IANAifType  
187."

REVISION "200009010000Z" -- Sept 01, 2000  
DESCRIPTION "Registration of new IANAifTypes  
184, 185, and 186."

REVISION "200008240000Z" -- Aug 24, 2000  
DESCRIPTION "Registration of new IANAifType 183."

REVISION "200008230000Z" -- Aug 23, 2000  
DESCRIPTION "Registration of new IANAifTypes

174-182."

REVISION "200008220000Z" -- Aug 22, 2000  
DESCRIPTION "Registration of new IANAifTypes 170,  
171, 172 and 173."

REVISION "200004250000Z" -- Apr 25, 2000  
DESCRIPTION "Registration of new IANAifTypes 168 and 169."

REVISION "200003060000Z" -- Mar 6, 2000  
DESCRIPTION "Fixed a missing semi-colon in the IMPORT.

Also cleaned up the REVISION log a bit.  
It is not complete, but from now on it will  
be maintained and kept up to date with

each

change to this MIB module."

REVISION "199910081430Z" -- Oct 08, 1999  
DESCRIPTION "Include new name assignments up to cnr(85).  
This is the first version available via the WWW  
at: ftp://ftp.isi.edu/mib/ianaiftype.mib"

REVISION "199401310000Z" -- Jan 31, 1994  
DESCRIPTION "Initial version of this MIB as published in  
RFC 1573."

::= { mib-2 30 }

IANAifType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used as the syntax of the ifType  
object in the (updated) definition of MIB-II's  
ifTable.

The definition of this textual convention with the  
addition of newly assigned values is published  
periodically by the IANA, in either the Assigned  
Numbers RFC, or some derivative of it specific to  
Internet

Network Management number assignments. (The  
latest arrangements can be obtained by contacting the  
IANA.)

Requests for new values should be made to IANA via  
email (iana&iana.org).

The relationship between the assignment of ifType values and of OIDs to particular media-specific MIBs is solely the purview of IANA and is subject to change without notice. Quite often, a media-specific MIB's OID-subtree assignment within MIB-II's 'transmission' subtree will be the same as its ifType value. However, in some circumstances this will not be the case, and implementors must not pre-assume any specific relationship between ifType values and transmission subtree OIDs."

```
SYNTAX INTEGER {
    other(1),      -- none of the following
    regular1822(2),
    hdh1822(3),
    ddnX25(4),
    rfc877x25(5),
    ethernetCsmacd(6), -- for all ethernet-like interfaces,
                       -- regardless of speed, as per RFC3635
    iso88023Csmacd(7), -- Deprecated via RFC3635
                       -- ethernetCsmacd (6) should be used instead
    iso88024TokenBus(8),
    iso88025TokenRing(9),
    iso88026Man(10),
    starLan(11), -- Deprecated via RFC3635
                  -- ethernetCsmacd (6) should be used instead
    proteon10Mbit(12),
    proteon80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    ds1(18),      -- DS1-MIB
    e1(19),       -- Obsolete see DS1-MIB
    basicISDN(20),
-- no longer used
                  -- see also RFC2127
    primaryISDN(21), -- no longer used
                  -- see also RFC2127
    propPointToPointSerial(22), -- proprietary serial
    ppp(23),
    softwareLoopback(24),
    eon(25),      -- CLNP over IP
    ethernet3Mbit(26),
    nsip(27),     -- XNS over IP
    slip(28),     -- generic SLIP
    ultra(29),    -- ULTRA technologies
    ds3(30),     -- DS3-MIB
    sip(31),     -- SMDS, coffee
}
```

frameRelay(32), -- DTE only.  
 rs232(33),  
 para(34), -- parallel-port  
 arcnet(35), -- arcnet  
 arcnetPlus(36), -- arcnet plus  
 atm(37),  
 -- ATM cells  
 miox25(38),  
 sonet(39), -- SONET or SDH  
 x25ple(40),  
 iso88022llc(41),  
 localTalk(42),  
 smdsDxi(43),  
 frameRelayService(44), -- FRNETSERV-MIB  
 v35(45),  
 hssi(46),  
 hippi(47),  
 modem(48), -- Generic modem  
 aal5(49), -- AAL5 over ATM  
 sonetPath(50),  
 sonetVT(51),  
 smdsIcip(52), -- SMDS InterCarrier Interface  
 propVirtual(53), -- proprietary virtual/internal  
 propMultiplexor(54), -- proprietary multiplexing  
 ieee80212(55), -- 100BaseVG  
 fibreChannel(56), -- Fibre Channel  
 hippiInterface(57), -- HIPPI interfaces  
 frameRelayInterconnect(58), --

Obsolete use either

-- frameRelay(32) or  
 -- frameRelayService(44).  
 aflane8023(59), -- ATM Emulated LAN for 802.3  
 aflane8025(60), -- ATM Emulated LAN for 802.5  
 cctEmul(61), -- ATM Emulated circuit  
 fastEther(62), -- Obsoleted via RFC3635  
 -- ethernetCsmacd (6) should be used instead  
 isdn(63), -- ISDN and X.25  
 v11(64), -- CCITT V.11/X.21  
 v36(65), -- CCITT V.36  
 g703at64k(66), -- CCITT G703 at 64Kbps  
 g703at2mb(67), -- Obsolete see DS1-MIB  
 qllc(68), -- SNA QLLC  
 fastEtherFX(69), -- Obsoleted via RFC3635  
 -- ethernetCsmacd (6) should be used instead  
 channel(70), -- channel  
 ieee80211(71), -- radio spread spectrum  
 ibm370parChan(72), -- IBM System 360/370 OEMI Channel



escon(73), -- IBM Enterprise Systems Connection  
 dlsw(74), -- Data Link Switching  
 isdns(75), -- ISDN S/T interface  
 isdnu(76), -- ISDN U interface  
 lapd(77), -- Link Access Protocol D  
 ipSwitch(78), -- IP Switching Objects  
 rsrc(79), -- Remote Source Route Bridging  
 atmLogical(80), -- ATM Logical Port  
 ds0(81), -- Digital Signal Level 0  
 ds0Bundle(82), -- group of ds0s on the same ds1  
 bsc(83), -- Bisynchronous Protocol  
  
 async(84), -- Asynchronous Protocol  
 cnr(85), -- Combat Net Radio  
 iso88025Dtr(86), -- ISO 802.5r DTR  
 eplrs(87), -- Ext Pos Loc Report Sys  
 arap(88), -- Appletalk Remote Access Protocol  
 propCnls(89), -- Proprietary Connectionless Protocol  
 hostPad(90), -- CCITT-ITU X.29 PAD Protocol  
 termPad(91), -- CCITT-ITU X.3 PAD Facility  
 frameRelayMPI(92), -- Multiproto Interconnect over FR  
 x213(93), -- CCITT-ITU X213  
 adsl(94), -- Asymmetric Digital Subscriber Loop  
 rads(95), -- Rate-Adapt. Digital Subscriber Loop  
 sds(96), -- Symmetric Digital Subscriber Loop  
 vds(97), -- Very H-Speed Digital Subscrib. Loop  
 iso88025CRFPInt(98),  
 -- ISO 802.5 CRFP  
 myrinet(99), -- Myricom Myrinet  
 voiceEM(100), -- voice receive and transmit  
 voiceFXO(101), -- voice Foreign Exchange Office  
 voiceFXS(102), -- voice Foreign Exchange Station  
 voiceEncap(103), -- voice encapsulation  
 voiceOverIp(104), -- voice over IP encapsulation  
 atmDxi(105), -- ATM DXI  
 atmFuni(106), -- ATM FUNI  
 atmIma (107), -- ATM IMA  
 pppMultilinkBundle(108), -- PPP Multilink Bundle  
 ipOverCdlc (109), -- IBM ipOverCdlc  
 ipOverClaw (110), -- IBM Common Link Access to Workstn  
 stackToStack (111), -- IBM stackToStack  
 virtualIpAddress (112), -- IBM VIPA  
 mpc (113), -- IBM multi-protocol channel support  
  
 ipOverAtm (114), -- IBM ipOverAtm  
 iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring  
 tdlc (116), -- IBM twinaxial data link control  
 gigabitEthernet (117), -- Obsoleted via RFC3635

-- ethernetCsmacd (6) should be used instead  
 hdlc (118), -- HDLC  
 lapf (119), -- LAP F  
 v37 (120), -- V.37  
 x25mlp (121), -- Multi-Link Protocol  
 x25huntGroup (122), -- X25 Hunt Group  
 trasnpHdlc (123), -- Transp HDLC  
 interleave (124), -- Interleave channel  
 fast (125), -- Fast channel  
 ip (126), -- IP (for APPN HPR in IP networks)  
 docsCableMaclayer (127), -- CATV Mac Layer  
 docsCableDownstream (128), -- CATV Downstream interface  
 docsCableUpstream  
 (129), -- CATV Upstream interface  
 a12MppSwitch (130), -- Avalon Parallel Processor  
 tunnel (131), -- Encapsulation interface  
 coffee (132), -- coffee pot  
 ces (133), -- Circuit Emulation Service  
 atmSubInterface (134), -- ATM Sub Interface  
 l2vlan (135), -- Layer 2 Virtual LAN using 802.1Q  
 l3ipvlan (136), -- Layer 3 Virtual LAN using IP  
 l3ipxvlan (137), -- Layer 3 Virtual LAN using IPX  
 digitalPowerline (138), -- IP over Power Lines  
 mediaMailOverIp (139), -- Multimedia Mail over IP  
 dtm (140), -- Dynamic synchronous Transfer Mode  
 dcn (141), -- Data Communications Network  
 ipForward (142), -- IP Forwarding Interface  
 msdsl (143), -- Multi-rate Symmetric DSL  
  
 ieee1394 (144), -- IEEE1394 High Performance Serial Bus  
 if-gsn (145), -- HIPPI-6400  
 dvbRccMacLayer (146), -- DVB-RCC MAC Layer  
 dvbRccDownstream (147), -- DVB-RCC Downstream Channel  
 dvbRccUpstream (148), -- DVB-RCC Upstream Channel  
 atmVirtual (149), -- ATM Virtual Interface  
 mplsTunnel (150), -- MPLS Tunnel Virtual Interface  
 srp (151), -- Spatial Reuse Protocol  
 voiceOverAtm (152), -- Voice Over ATM  
 voiceOverFrameRelay (153), -- Voice Over Frame Relay  
 idsl (154), -- Digital Subscriber Loop over ISDN  
 compositeLink (155), -- Avici Composite Link Interface  
 ss7SigLink (156), -- SS7 Signaling Link  
 propWirelessP2P (157), -- Prop. P2P wireless interface  
 frForward (158), -- Frame Forward Interface  
 rfc1483 (159), -- Multiprotocol over ATM AAL5  
 usb (160), -- USB Interface  
 ieee8023adLag (161), -- IEEE 802.3ad Link Aggregate  
 bgppolicyaccounting (162), -- BGP Policy Accounting

frf16MfrBundle (163), -- FRF .16 Multilink Frame Relay  
 h323Gatekeeper (164), -- H323 Gatekeeper  
 h323Proxy (165), -- H323 Voice and Video Proxy  
 mpls (166), -- MPLS  
 mfSigLink (167), -- Multi-frequency signaling link  
 hdsl2 (168), -- High Bit-Rate DSL - 2nd generation  
 shdsl (169), -- Multirate HDSL2  
 ds1FDL (170), -- Facility Data Link 4Kbps on a DS1  
 pos (171), -- Packet over SONET/SDH Interface  
 dvbAsiIn (172), -- DVB-ASI Input  
 dvbAsiOut (173), -- DVB-ASI Output  
 plc (174), -- Power Line Communications  
 nfas (175), -- Non Facility Associated Signaling  
 tr008 (176), -- TR008  
 gr303RDT (177), -- Remote Digital Terminal  
 gr303IDT (178), -- Integrated Digital Terminal  
 isup (179), -- ISUP  
 propDocsWirelessMaclayer (180), -- Cisco proprietary Maclayer  
 propDocsWirelessDownstream (181), -- Cisco proprietary Downstream  
 propDocsWirelessUpstream (182), -- Cisco proprietary Upstream  
 hiperlan2 (183), -- HIPERLAN Type 2 Radio Interface  
 propBWAp2Mp (184), -- PropBroadbandWirelessAccesspt2multipt  
     -- use of this iftype for IEEE 802.16 WMAN  
     -- interfaces as per IEEE Std 802.16f is  
     -- deprecated and ifType 237 should be used instead.  
 sonetOverheadChannel (185), -- SONET Overhead Channel  
 digitalWrapperOverheadChannel  
 (186), -- Digital Wrapper  
     aal2 (187), -- ATM adaptation layer 2  
     radioMAC (188), -- MAC layer over radio links  
     atmRadio (189), -- ATM over radio links  
     imt (190), -- Inter Machine Trunks  
     mvl (191), -- Multiple Virtual Lines DSL  
     reachDSL (192), -- Long Reach DSL  
     frDlciEndPt (193), -- Frame Relay DLCI End Point  
     atmVciEndPt (194), -- ATM VCI End Point  
     opticalChannel (195), -- Optical Channel  
     opticalTransport (196), -- Optical Transport  
     propAtm (197), -- Proprietary ATM  
     voiceOverCable (198), -- Voice Over Cable Interface  
     infiniband (199), -- Infiniband  
     teLink (200), -- TE Link  
     q2931 (201), -- Q.2931  
     virtualTg (202), -- Virtual Trunk Group  
  
 sipTg (203), -- SIP Trunk Group  
     sipSig (204), -- SIP Signaling  
     docsCableUpstreamChannel (205), -- CATV Upstream Channel

```

econet (206), -- Acorn Econet
pon155 (207), -- FSAN 155Mb Symetrical PON interface
pon622 (208), -- FSAN622Mb Symetrical PON interface
bridge (209), -- Transparent bridge interface
linegroup (210), -- Interface common to multiple lines
voiceEMFGD (211), -- voice E&M Feature Group D
voiceFGDEANA (212), -- voice FGD Exchange Access North American
voiceDID (213), -- voice Direct Inward Dialing
mpegTransport (214), -- MPEG transport interface
sixToFour (215), -- 6to4 interface (DEPRECATED)
gtp (216), -- GTP (GPRS Tunneling Protocol)
pdnEtherLoop1 (217), -- Paradyne EtherLoop 1
pdnEtherLoop2
(218), -- Paradyne EtherLoop 2
    opticalChannelGroup (219), -- Optical Channel Group
    homepna (220), -- HomePNA ITU-T G.989
    gfp (221), -- Generic Framing Procedure (GFP)
    ciscoISLvlan (222), -- Layer 2 Virtual LAN using Cisco ISL
    actelisMetaLOOP (223), -- Acteleis proprietary MetaLOOP High Speed Link
    fcipLink (224), -- FCIP Link
    rpr (225), -- Resilient Packet Ring Interface Type
    qam (226), -- RF Qam Interface
    Imp (227), -- Link Management Protocol
    cblVectaStar (228), -- Cambridge Broadband Networks Limited VectaStar
    docsCableMCmtsDownstream (229), -- CATV Modular CMTS Downstream Interface
    adsl2 (230), -- Asymmetric Digital Subscriber Loop Version 2
        -- (DEPRECATED/OBSOLETED - please use adsl2plus 238 instead)

macSecControlledIF (231), -- MACSecControlled
    macSecUncontrolledIF (232), -- MACSecUncontrolled
    aviciOpticalEther (233), -- Avici Optical Ethernet Aggregate
    atmbond (234), -- atmbond
    voiceFGDOS (235), -- voice FGD Operator Services
    mocaVersion1 (236), -- MultiMedia over Coax Alliance (MoCA) Interface
        -- as documented in information provided privately to IANA
    ieee80216WMAN (237), -- IEEE 802.16 WMAN interface
    adsl2plus (238), -- Asymmetric Digital Subscriber Loop Version 2,
        -- Version 2 Plus and all variants
    dvbRcsMacLayer (239), -- DVB-RCS MAC Layer
    dvbTdm (240), -- DVB Satellite TDM
    dvbRcsTdma (241), -- DVB-RCS TDMA
    x86Laps (242), -- LAPS based on ITU-T X.86/Y.1323
    wwanPP (243), -- 3GPP

WWAN
    wwanPP2 (244) -- 3GPP2 WWAN
}

```

IANA tunnelType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The encapsulation method used by a tunnel. The value direct indicates that a packet is encapsulated directly within a normal IP header, with no intermediate header, and unicast to the remote tunnel endpoint (e.g., an RFC 2003 IP-in-IP tunnel, or an RFC 1933 IPv6-in-IPv4 tunnel). The value minimal indicates that a Minimal Forwarding Header (RFC 2004) is inserted between the outer header and the payload packet. The value UDP indicates that the payload packet is encapsulated within a normal UDP packet (e.g., RFC 1234).

The values sixToFour, sixOverFour, and isatap indicates that an IPv6 packet is encapsulated directly within an IPv4 header, with no intermediate header,

and unicast to the destination determined by the 6to4, 6over4, or ISATAP protocol.

The remaining protocol-specific values indicate that a header of the protocol of that name is inserted between the outer header and the payload header.

The assignment policy for IANA tunnelType values is identical to the policy for assigning IANA ifType values."

```
SYNTAX INTEGER {
    other(1),      -- none of the following
    direct(2),    -- no intermediate header
    gre(3),       -- GRE encapsulation
    minimal(4),   -- Minimal encapsulation
    l2tp(5),      -- L2TP encapsulation
    pptp(6),     -- PPTP encapsulation
    l2f(7),      -- L2F encapsulation
    udp(8),      -- UDP encapsulation
    atmp(9),     -- ATMP encapsulation

    msdp(10),    -- MSDP encapsulation
    sixToFour(11), -- 6to4 encapsulation
    sixOverFour(12), -- 6over4 encapsulation
    isatap(13),  -- ISATAP encapsulation
    teredo(14)   -- Teredo encapsulation
}
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANAifType-MIB

No license file was found, but licenses were detected in source scan.

SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,  
OBJECT-TYPE,  
NOTIFICATION-TYPE,  
Counter32,  
Gauge32,  
TimeTicks,  
Unsigned32,

mib-2

FROM SNMPv2-SMI -- RFC 2578

RowStatus,  
TimeStamp,  
TruthValue

FROM SNMPv2-TC -- RFC 2579

MODULE-COMPLIANCE,  
OBJECT-GROUP,  
NOTIFICATION-GROUP

FROM SNMPv2-CONF -- RFC 2580

SnmAdminString

FROM SNMP-FRAMEWORK-MIB -- RFC 3411

SipTCTransportProtocol,  
SipTCMethodName,  
SipTCEntityRole,  
SipTCOptionTagHeaders

FROM SIP-TC-MIB -- RFC 4780

applIndex

FROM NETWORK-SERVICES-MIB -- RFC 2788

InetPortNumber

FROM INET-ADDRESS-MIB; -- RFC 4001

sipCommonMIB MODULE-IDENTITY

LAST-UPDATED "200704200000Z"

ORGANIZATION "IETF Session Initiation Protocol Working Group"

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## DESCRIPTION

"Session Initiation Protocol (SIP) Common MIB module. This module defines objects that may be common to all SIP entities.

SIP is an application-layer signaling protocol for creating, modifying and terminating multimedia sessions with one or more participants. These sessions include Internet multimedia conferences and Internet telephone calls. SIP is defined in RFC 3261 (June 2002).

This MIB is defined for managing objects that are common to SIP User Agents (UAs), Proxy, Redirect, and Registrar servers. Objects specific to each of these entities MAY be managed using entity specific MIBs defined in other modules.

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REVISION "200704200000Z"

## DESCRIPTION

"Initial version of the IETF SIP-COMMON-MIB module. This

```

    version published as part of RFC 4780."
    ::= { mib-2 149 }

-- Top-Level Components of this MIB.
sipCommonMIBNotifications OBJECT IDENTIFIER
    ::= { sipCommonMIB 0 }
sipCommonMIBObjects    OBJECT IDENTIFIER ::= { sipCommonMIB 1 }
sipCommonMIBConformance OBJECT IDENTIFIER ::= { sipCommonMIB 2 }

--

-- This MIB contains objects that are common to all SIP entities.
--

-- Common basic configuration
sipCommonCfgBase    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 1 }

-- Protocol timer configuration
sipCommonCfgTimer    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 2 }

-- SIP message summary statistics

sipCommonSummaryStats OBJECT IDENTIFIER ::= { sipCommonMIBObjects 3 }

-- Per method statistics
sipCommonMethodStats OBJECT IDENTIFIER ::= { sipCommonMIBObjects 4 }

-- Per Status code or status code class statistics
sipCommonStatusCode OBJECT IDENTIFIER ::= { sipCommonMIBObjects 5 }

-- Transaction statistics
sipCommonStatsTrans OBJECT IDENTIFIER ::= { sipCommonMIBObjects 6 }

-- Method retry statistics
sipCommonStatsRetry OBJECT IDENTIFIER ::= { sipCommonMIBObjects 7 }

-- Other statistics
sipCommonOtherStats
    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 8 }

-- Accessible-for-notify objects
sipCommonNotifObjects OBJECT IDENTIFIER ::= { sipCommonMIBObjects 9 }

--

-- Common Configuration Objects
--

sipCommonCfgTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF SipCommonCfgEntry

```



MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This table contains the common configuration objects applicable  
to all SIP entities."  
::= { sipCommonCfgBase 1 }

sipCommonCfgEntry OBJECT-TYPE

SYNTAX SipCommonCfgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of common configuration.

Each row represents objects for a particular SIP entity  
instance present in this system. applIndex is used to uniquely  
identify these instances of SIP entities and correlate them  
through the common framework of the NETWORK-SERVICES-MIB (RFC  
2788)."

INDEX { applIndex }

::= { sipCommonCfgTable 1

}

SipCommonCfgEntry ::= SEQUENCE {

sipCommonCfgProtocolVersion SnmpAdminString,

sipCommonCfgServiceOperStatus INTEGER,

sipCommonCfgServiceStartTime TimeTicks,

sipCommonCfgServiceLastChange TimeTicks,

sipCommonCfgOrganization SnmpAdminString,

sipCommonCfgMaxTransactions Unsigned32,

sipCommonCfgServiceNotifEnable BITS,

sipCommonCfgEntityType SipTCEntityRole

}

sipCommonCfgProtocolVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will reflect the version of SIP supported by this  
SIP entity. It will follow the same format as SIP version  
information contained in the SIP messages generated by this SIP  
entity. For example, entities supporting SIP version 2 will  
return 'SIP/2.0' as dictated by the standard."

REFERENCE

"RFC 3261, Section 7.1"

```
::= { sipCommonCfgEntry  
1 }
```

sipCommonCfgServiceOperStatus OBJECT-TYPE

```
SYNTAX INTEGER {  
    unknown(1),  
    up(2),  
    down(3),  
    congested(4),  
    restarting(5),  
    quiescing(6),  
    testing(7)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the current operational state of the SIP application.

unknown : The operational status cannot be determined for some reason.

up : The application is operating normally and is processing (receiving and possibly issuing) SIP requests and responses.

down : The application is currently unable to process SIP messages.

congested : The application is operational but no additional

inbound transactions can be accommodated at the moment.

restarting : The application is currently unavailable, but it is in the process of restarting and will presumably, soon be able to process SIP messages.

quiescing : The application is currently operational but has been administratively put into quiescence mode. Additional inbound transactions MAY be rejected.

testing : The application is currently in test mode and MAY not be able to process SIP messages.

The operational status values defined for this object are not based on any specific information contained in the SIP standard."

```
::= { sipCommonCfgEntry 2 }
```

sipCommonCfgServiceStartTime OBJECT-TYPE

SYNTAX TimeTicks  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime at the time the SIP entity was last started. If started prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."  
::= { sipCommonCfgEntry 3 }

sipCommonCfgServiceLastChange OBJECT-TYPE

SYNTAX TimeTicks  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime at the time the SIP entity entered its current operational state. If the current state was entered prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."  
::= { sipCommonCfgEntry 4 }

sipCommonCfgOrganization OBJECT-TYPE

SYNTAX SnmpAdminString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object contains the organization name that the SIP entity inserts into Organization headers of SIP messages processed by this system. If the string is empty, no Organization header is to be generated."

REFERENCE

"RFC 3261, Section 20.25"  
::= { sipCommonCfgEntry 5 }

sipCommonCfgMaxTransactions OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object indicates the maximum number of simultaneous transactions per second that the SIP entity can manage. In general, the value of this object SHOULD reflect a level of transaction processing per second that is considered high

enough to impact the system's CPU and/or memory resources to the point of deteriorating SIP call processing but not high enough to cause catastrophic system failure."

::= { sipCommonCfgEntry 6 }

sipCommonCfgServiceNotifEnable OBJECT-TYPE

SYNTAX BITS {  
    sipCommonServiceColdStart(0),  
    sipCommonServiceWarmStart(1),  
    sipCommonServiceStatusChanged(2)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies which SIP service related notifications are enabled. Each bit represents a specific notification. If a bit has a value 1, the associated notification is enabled and will be generated by the SIP entity at the appropriate time.

Support for these notifications is OPTIONAL: either none or all notification values are supported. If an implementation does not support this object, it should return a 'noSuchObject' exception to an SNMP GET operation. If notifications are supported, this object's default value SHOULD reflect sipCommonServiceColdStart and sipCommonServiceWarmStart enabled and sipCommonServiceStatusChanged disabled.

This object value SHOULD persist across reboots."

DEFVAL { { sipCommonServiceColdStart,  
          sipCommonServiceWarmStart } }

::= { sipCommonCfgEntry 7 }

sipCommonCfgEntityType OBJECT-TYPE

SYNTAX SipTCEntityRole

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies the list of SIP entities to which this row is related. It is defined as a bit map. Each bit represents a type of SIP entity. If a bit has value 1, the SIP entity represented by this row plays the role of this entity type. If a bit has value 0, the SIP entity represented by this row does not act as this entity type. Combinations of bits can be set when the SIP entity plays multiple SIP roles."

```

 ::= { sipCommonCfgEntry 8 }

--
-- Support for multiple ports
--
sipCommonPortTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF SipCommonPortEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "This table contains the list of ports that each SIP entity in
        this system is allowed to use. These ports can be advertised
        using the Contact header in a REGISTER request or response."
 ::= {
sipCommonCfgBase 2 }

sipCommonPortEntry OBJECT-TYPE
    SYNTAX    SipCommonPortEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "Specification of a particular port.

        Each row represents those objects for a particular SIP entity
        present in this system. applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex, sipCommonPort }
 ::= { sipCommonPortTable 1 }

SipCommonPortEntry ::= SEQUENCE {
    sipCommonPort          InetPortNumber,
    sipCommonPortTransportRcv  SipTCTransportProtocol
}

sipCommonPort OBJECT-TYPE
    SYNTAX    InetPortNumber (1..65535)
    MAX-ACCESS not-accessible
    STATUS    current

    DESCRIPTION
        "This object reflects a particular port that can be used by the
        SIP application."
 ::= { sipCommonPortEntry 1 }

sipCommonPortTransportRcv

```

## OBJECT-TYPE

SYNTAX SipTCTransportProtocol

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object will specify the transport protocol the SIP entity will use to receive SIP messages.

This object is a bit map. Each bit represents a transport protocol. If a bit has value 1, then that transport protocol is currently being used. If a bit has value 0, then that transport protocol is currently not being used."

::= { sipCommonPortEntry 2 }

--

-- Support for SIP option tags (SIP extensions).

-- SIP extensions MAY be supported or required by SIP entities.

--

## sipCommonOptionTagTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonOptionTagEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table contains a list of the SIP option tags (SIP extensions) that are either required, supported, or unsupported by the SIP entity. These option tags are used in the Require, Proxy-Require, Supported, and Unsupported header fields.

Example: If a user agent client supports, and requires the server to support, reliability of provisional responses (RFC 3262), this table contains a row with the option tag string '100rel' in sipCommonOptionTag and the OCTET STRING value of '1010 0000' or '0xA0' in sipCommonOptionTagHeaderField.

If a server does not support the required feature (indicated in a Require header to a UAS, or in a Proxy-Require to a Proxy Server), the server returns a 420 Bad Extension listing the feature in an Unsupported header.

Normally, the list of such features supported by an entity is static (i.e., will not change over time)."

## REFERENCE

"RFC 3261, Sections 19.2, 20.32, 20.29, 20.37, and 20.40"

::= { sipCommonCfgBase 3 }

sipCommonOptionTagEntry OBJECT-TYPE

SYNTAX SipCommonOptionTagEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A particular SIP option tag (extension) supported or unsupported by the SIP entity, and which may be supported or required by a peer.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonOptionTagIndex }

::= { sipCommonOptionTagTable 1 }

SipCommonOptionTagEntry ::= SEQUENCE {

sipCommonOptionTagIndex Unsigned32,

sipCommonOptionTag SnmpAdminString,

sipCommonOptionTagHeaderField SipTCOptionTagHeaders

}

sipCommonOptionTagIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

::= { sipCommonOptionTagEntry 1 }

sipCommonOptionTag OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the SIP option tag. The option tag names are registered with IANA and available at <http://www.iana.org>."

REFERENCE "RFC 3261, Section 27.1"

::= { sipCommonOptionTagEntry 2 }

sipCommonOptionTagHeaderField OBJECT-TYPE

SYNTAX SipTCOptionTagHeaders

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"This object indicates whether the SIP option tag is supported (Supported header), unsupported (Unsupported header), or required (Require or Proxy-Require header) by the SIP entity. A SIP option tag may be both supported and required."

::= { sipCommonOptionTagEntry 3 }

--

-- Supported SIP Methods

--

sipCommonMethodSupportedTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table contains a list of methods supported by each SIP entity in this system (see the standard set of SIP methods in Section 7.1 of RFC 3261). Any additional methods that may be incorporated into the SIP protocol can be represented by this table without any requirement to update this MIB module.

The table is informational in nature and conveys capabilities of the managed system to the SNMP Manager.

From a protocol point of view, the list of methods advertised by the SIP entity in the Allow header (Section 20.5 of RFC 3261) MUST be consistent with the methods reflected in this table."

::= { sipCommonCfgBase 4 }

sipCommonMethodSupportedEntry OBJECT-TYPE

SYNTAX SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"A particular method supported by the SIP entity.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonMethodSupportedIndex }

::= { sipCommonMethodSupportedTable 1 }

SipCommonMethodSupportedEntry ::= SEQUENCE {



```
    sipCommonMethodSupportedIndex Unsigned32,  
    sipCommonMethodSupportedName SipTCMethodName  
}
```

sipCommonMethodSupportedIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table and reflects an assigned number used to identify a specific SIP method.

This identifier is suitable for referencing the associated method throughout this and other MIBs supported by this managed system."

::= { sipCommonMethodSupportedEntry 1 }

sipCommonMethodSupportedName OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the supported method's name. The method name MUST be all upper case (e.g., 'INVITE')."

::= { sipCommonMethodSupportedEntry 2 }

--

-- SIP Timer Configuration

--

sipCommonCfgTimerTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonCfgTimerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains timer configuration objects applicable to SIP user agent and SIP stateful Proxy Server entities."

::= { sipCommonCfgTimer 1 }

sipCommonCfgTimerEntry OBJECT-TYPE

SYNTAX SipCommonCfgTimerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of timer configuration.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788). The objects in this table entry SHOULD be non-volatile and their value SHOULD be kept at reboot."

```
INDEX { applIndex }
 ::= { sipCommonCfgTimerTable 1 }
```

```
SipCommonCfgTimerEntry ::= SEQUENCE {
    sipCommonCfgTimerA      Unsigned32,
    sipCommonCfgTimerB      Unsigned32,
    sipCommonCfgTimerC      Unsigned32,
    sipCommonCfgTimerD      Unsigned32,
    sipCommonCfgTimerE      Unsigned32,
    sipCommonCfgTimerF      Unsigned32,
    sipCommonCfgTimerG      Unsigned32,
    sipCommonCfgTimerH      Unsigned32,
    sipCommonCfgTimerI      Unsigned32,
    sipCommonCfgTimerJ      Unsigned32,
    sipCommonCfgTimerK      Unsigned32,

    sipCommonCfgTimerT1     Unsigned32,
    sipCommonCfgTimerT2     Unsigned32,
    sipCommonCfgTimerT4     Unsigned32
}
```

sipCommonCfgTimerA OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for the INVITE method. The retransmit timer doubles after each retransmission, ensuring an exponential backoff in network traffic. This object represents the initial time a SIP entity will wait to receive a provisional response to an INVITE before resending the INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 500 }

```
::= { sipCommonCfgTimerEntry 1 }
```

sipCommonCfgTimerB OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to an INVITE. The timer is started upon transmission of the initial INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 2 }

sipCommonCfgTimerC OBJECT-TYPE

SYNTAX Unsigned32 (180000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP Proxy Server will wait to receive a provisional response to an INVITE. The Timer C MUST be set for each client transaction when an INVITE request is proxied."

REFERENCE

"RFC 3261, Section 16.6"

DEFVAL { 180000 }

::= { sipCommonCfgTimerEntry 3 }

sipCommonCfgTimerD OBJECT-TYPE

SYNTAX Unsigned32 (0..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the amount of time that the server transaction can remain in the 'Completed' state when unreliable transports are used. The default value MUST be equal to or greater than 32000 for UDP transport, and its value MUST be 0 for TCP/SCTP transport."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 4 }

sipCommonCfgTimerE OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for a non-INVITE method while in 'Trying' state. The retransmit timer doubles after each retransmission until it reaches T2 to ensure an exponential backoff in network traffic.

This object represents the initial time a SIP entity will wait to receive a provisional response to the request before resending the non-INVITE

request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 5 }

sipCommonCfgTimerF OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to a non-INVITE request. The timer is started upon transmission of the initial request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 6 }

sipCommonCfgTimerG OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for final responses to INVITE requests. If timer G fires, the response is passed to the transport layer again for

retransmission,  
and timer G is set to fire in  $\text{MIN}(2 * T1, T2)$   
seconds. From then on, when timer G fires, the response is  
passed to the transport again for transmission, and timer G is  
reset with a value that doubles, unless that value exceeds T2,  
in which case, it is reset with the value of T2. The default  
value MUST be T1 for UDP transport, and its value MUST be 0 for  
reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 7 }

sipCommonCfgTimerH OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a server will wait to  
receive an ACK before it abandons retransmitting the response.

The timer is started upon entering the 'Completed' state."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 32000 }

::=

{ sipCommonCfgTimerEntry 8 }

sipCommonCfgTimerI OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to  
receive additional ACK message retransmissions.

The timer is started upon entering the 'Confirmed' state. The  
default value MUST be T4 for UDP transport and its value MUST  
be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 9 }

sipCommonCfgTimerJ OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP server will wait to receive retransmissions of non-INVITE requests. The timer is started upon entering the 'Completed' state for non-INVITE transactions. When timer J fires, the server MUST transition to the 'Terminated' state."

REFERENCE

"RFC 3261, Section 17.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 10 }

sipCommonCfgTimerK OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP client will wait to receive retransmissions of responses to non-INVITE requests. The timer is started upon entering the 'Completed' state for

non-INVITE transactions. When timer K fires, the server MUST transition to the 'Terminated' state. The default value MUST be T4 for UDP transport, and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 11 }

sipCommonCfgTimerT1 OBJECT-TYPE

SYNTAX

Unsigned32 (200..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T1 timer for a SIP entity. T1 is an estimate of the round-trip time (RTT) between the client and server transactions."

REFERENCE

```
"RFC 3261, Section 17"
DEFVAL { 500 }
::= { sipCommonCfgTimerEntry 12 }
```

sipCommonCfgTimerT2 OBJECT-TYPE  
SYNTAX Unsigned32 (200..10000)  
UNITS "milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object reflects the T2 timer for a SIP entity. T2 is the maximum retransmit interval for non-INVITE requests and INVITE responses. It's used in various parts of the protocol to reset other Timer\* objects to this value."  
REFERENCE  
"RFC 3261, Section 17"  
DEFVAL { 4000 }  
::= { sipCommonCfgTimerEntry 13 }

```
sipCommonCfgTimerT4 OBJECT-TYPE  
SYNTAX Unsigned32 (200..10000)  
UNITS  
"milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object reflects the T4 timer for a SIP entity. T4 is the maximum duration a message will remain in the network. It represents the amount of time the network will take to clear messages between client and server transactions. It's used in
```

various parts of the protocol to reset other Timer\* objects to this value."

```
REFERENCE  
"RFC 3261, Section 17"  
DEFVAL { 5000 }  
::= { sipCommonCfgTimerEntry 14 }
```

```
--  
-- Common Statistics Objects  
--
```

```
--  
-- Summary Statistics  
--
```

```
sipCommonSummaryStatsTable OBJECT-TYPE
```

SYNTAX SEQUENCE OF SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the summary statistics objects applicable to all SIP entities. Each row represents those objects for a particular SIP entity present in this system."

::= {

sipCommonSummaryStats 1 }

sipCommonSummaryStatsEntry OBJECT-TYPE

SYNTAX SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of summary statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex }

::= { sipCommonSummaryStatsTable 1 }

SipCommonSummaryStatsEntry ::= SEQUENCE {

sipCommonSummaryInRequests Counter32,  
sipCommonSummaryOutRequests Counter32,  
sipCommonSummaryInResponses Counter32,  
sipCommonSummaryOutResponses Counter32,  
sipCommonSummaryTotalTransactions Counter32,  
sipCommonSummaryDisconTime TimeStamp

}

sipCommonSummaryInRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of SIP request messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same



row."

::= { sipCommonSummaryStatsEntry 1 }

sipCommonSummaryOutRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP request messages sent out (originated and relayed) by the SIP entity. Where a particular message is sent more than once, for example as a retransmission or as a result of forking, each transmission is counted separately.

Discontinuities in the value

of this counter can occur at

re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 2 }

sipCommonSummaryInResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at

re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 3 }

sipCommonSummaryOutResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages sent (originated and relayed) by the SIP entity including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

```
::= { sipCommonSummaryStatsEntry 4 }
```

sipCommonSummaryTotalTransactions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains a count of the number of transactions that are in progress and transactions that have reached the 'Terminated' state. It is not applicable to stateless SIP Proxy Servers.

A SIP transaction occurs between a client and a server, and comprises all messages from the first request sent from the client to the server, up to a final (non-1xx) response sent from the server to the client.

If the request is INVITE and the final response is a non-2xx, the transaction also include an ACK to the response. The ACK for a 2xx response to an INVITE request is a separate transaction.

The branch ID parameter in the Via header field values serves as a transaction identifier.

A transaction is identified by the CSeq sequence number within a single call leg. The ACK request has the same CSeq number as the corresponding INVITE request, but comprises a transaction of its own.

In the case of a forked request, each branch counts as a single transaction.

For a transaction stateless Proxy Server, this counter is always 0.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management

Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."  
 ::= { sipCommonSummaryStatsEntry 5 }

sipCommonSummaryDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the summary statistics objects in this row last experienced a discontinuity."

::= { sipCommonSummaryStatsEntry 6 }

--

-- SIP Method Statistics

-- Total counts for each SIP method.

--

sipCommonMethodStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonMethodStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the method statistics objects for SIP entities. Each row represents those objects for a particular SIP entity present in this system."

::= { sipCommonMethodStats 1 }

sipCommonMethodStatsEntry OBJECT-TYPE

SYNTAX SipCommonMethodStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of per entity method statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonMethodStatsName }

::= { sipCommonMethodStatsTable 1 }

SipCommonMethodStatsEntry ::= SEQUENCE {

sipCommonMethodStatsName SipTCMethodName,

sipCommonMethodStatsOutbounds Counter32,

sipCommonMethodStatsInbounds Counter32,  
    sipCommonMethodStatsDisconTime TimeStamp

}

sipCommonMethodStatsName OBJECT-TYPE

SYNTAX StpTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies the SIP method related to the

objects in a particular row."

::= { sipCommonMethodStatsEntry 1 }

sipCommonMethodStatsOutbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests sent by the SIP entity, excluding retransmissions. Retransmissions are counted separately and are not reflected in this counter. A Management Station can detect discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 2 }

sipCommonMethodStatsInbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests received by the SIP entity. Retransmissions are counted separately and are not reflected in this counter. A Management Station

can detect

discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 3 }

sipCommonMethodStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of the sysUpTime object when the counters for the method statistics objects in this row last experienced a discontinuity."

::= { sipCommonMethodStatsEntry 4 }

--

-- Support for specific status codes

--

sipCommonStatusCodeTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the list of SIP status codes that each SIP entity in this system has been requested to monitor. It is the mechanism by which specific status codes are monitored.

Entries created in this table

must not persist across reboots."

::= { sipCommonStatusCode 1 }

sipCommonStatusCodeEntry OBJECT-TYPE

SYNTAX SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This row contains information on a particular SIP status code that the SIP entity has been requested to monitor. Entries created in this table must not persist across reboots.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatusCodeMethod,  
sipCommonStatusCodeValue }

::= { sipCommonStatusCodeTable 1 }

SipCommonStatusCodeEntry ::= SEQUENCE {

sipCommonStatusCodeMethod SipTCMethodName,

sipCommonStatusCodeValue Unsigned32,

sipCommonStatusCodeIns

```
Counter32,  
sipCommonStatusCodeOuts Counter32,  
sipCommonStatusCodeRowStatus RowStatus,  
sipCommonStatusCodeDisconTime TimeStamp  
}
```

sipCommonStatusCodeMethod OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

::= { sipCommonStatusCodeEntry 1 }

sipCommonStatusCodeValue OBJECT-TYPE

SYNTAX Unsigned32 (100..999)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object contains a SIP status code value that the SIP entity has been requested to monitor. All of the other information in the row is related to this value."

::= { sipCommonStatusCodeEntry 2 }

sipCommonStatusCodeIns OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of response messages received by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of the status code is temporarily disabled. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

::= { sipCommonStatusCodeEntry 3 }

sipCommonStatusCodeOuts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of response messages sent by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of

the Status code is temporarily disabled. A

Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

::= { sipCommonStatusCodeEntry 4 }

sipCommonStatusCodeRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The row augmentation in sipCommonStatusCodeNotifTable will be governed by the value of this RowStatus.

The values 'createAndGo' and 'destroy' are the only valid values allowed for this object. If a row exists, it will reflect a status of 'active' when queried."

::= { sipCommonStatusCodeEntry 5 }

sipCommonStatusCodeDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the status code statistics objects in this row last experienced a discontinuity."

::= { sipCommonStatusCodeEntry 6 }

--

-- Support for specific status code notifications

--

sipCommonStatusCodeNotifTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects to control notifications related to particular status codes that each SIP entity in this system has been requested to monitor.

There is an entry in this table corresponding to each entry in sipCommonStatusCodeTable. Therefore, this table augments sipCommonStatusCodeTable and utilizes the same index methodology.

The objects in this table are not included directly in the sipCommonStatusCodeTable simply to keep the status code notification control objects separate from the actual status code statistics."

::= { sipCommonStatusCode 2 }

sipCommonStatusCodeNotifEntry OBJECT-TYPE

SYNTAX

SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This row contains information controlling notifications for a particular SIP status code that the SIP entity has been requested to monitor."

AUGMENTS { sipCommonStatusCodeEntry }

::= { sipCommonStatusCodeNotifTable 1 }

SipCommonStatusCodeNotifEntry ::= SEQUENCE {

    sipCommonStatusCodeNotifSend TruthValue,  
    sipCommonStatusCodeNotifEmitMode INTEGER,  
    sipCommonStatusCodeNotifThresh Unsigned32,  
    sipCommonStatusCodeNotifInterval Unsigned32

}

sipCommonStatusCodeNotifSend OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls whether a sipCommonStatusCodeNotif is emitted when the status code value specified by sipCommonStatusCodeValue is sent or received. If the value of this object is 'true', then a notification



is sent. If it is

'false', no notification is sent.

Note well that a notification MAY be emitted for every message sent or received that contains the particular status code.

Depending on the status code involved, this can cause a significant number of notification emissions that could be detrimental to network performance. Managers are forewarned to be prudent in the use of this object to enable notifications.

Look to sipCommonStatusCodeNotifEmitMode for alternative controls for sipCommonStatusCodeNotif emissions."

DEFVAL { false }

::= { sipCommonStatusCodeNotifEntry 1 }

sipCommonStatusCodeNotifEmitMode OBJECT-TYPE

```
SYNTAX  INTEGER {
    normal(1),
    oneShot(2),
    triggered(3) -- read-only
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The object sipCommonStatusCodeNotifSend MUST be set to 'true' for the values of this object to have any effect. It is RECOMMENDED that the desired emit mode be established by this object prior to setting sipCommonStatusCodeNotifSend to 'true'. This object and the sipCommonStatusCodeNotifSend object can obviously be set independently, but their respective values will have a dependency on each other and the resulting notifications.

This object specifies the mode for emissions of sipCommonStatusCodeNotif notifications.

**normal** : sipCommonStatusCodeNotif notifications will be emitted by the system for each SIP response message sent or received that contains the desired status code.

**oneShot** : Only one sipCommonStatusCodeNotif notification will be emitted. It will be the next SIP response message sent or received that contains the desired

status code.

No more notifications are emitted until this object is set to 'oneShot' again or set to 'normal'. This option is provided as a means of quelling the potential promiscuous behavior that can be associated with the sipCommonStatusCodeNotif.

triggered : This value is only readable and cannot be set. It reflects that the 'oneShot' case has occurred, and indicates that the mode needs to be reset to get further notifications. The mode is reset by setting this object to 'oneShot' or 'normal'."

DEFVAL { oneShot }

::= { sipCommonStatusCodeNotifEntry 2 }

sipCommonStatusCodeNotifThresh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the number of response messages sent or

received by this system that are considered excessive. Based on crossing that threshold, a sipCommonStatusCodeThreshExceededInNotif notification or a sipCommonStatusCodeThreshExceededOutNotif will be sent. The sipCommonStatusCodeThreshExceededInNotif and

sipCommonStatusCodeThreshExceededOutNotif notifications can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

DEFVAL { 500 }

::= { sipCommonStatusCodeNotifEntry 3 }

sipCommonStatusCodeNotifInterval OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the time interval over which, if sipCommonStatusCodeThresh is exceeded with respect to sent or received messages, a sipCommonStatusCodeThreshExceededInNotif

or sipCommonStatusCodeThreshExceededOutNotif notification will be sent.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

DEFVAL { 60 }

::= { sipCommonStatusCodeNotifEntry 4 }

--

-- Transaction Statistics

--

sipCommonTransCurrentTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonTransCurrentEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information on the transactions currently awaiting definitive responses by each SIP entity in this system.

This table does not apply to transaction stateless Proxy Servers."

::= { sipCommonStatsTrans 1 }

sipCommonTransCurrentEntry OBJECT-TYPE

SYNTAX SipCommonTransCurrentEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information on a particular SIP entity's current transactions.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex }

::= { sipCommonTransCurrentTable 1 }

SipCommonTransCurrentEntry ::= SEQUENCE {

sipCommonTransCurrentactions Gauge32

}

sipCommonTransCurrentactions OBJECT-TYPE

SYNTAX Gauge32 (0..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the number of transactions awaiting definitive (non-1xx) response. In the case of a forked request, each branch counts as a single transaction corresponding to the entity identified by applIndex."

::= { sipCommonTransCurrentEntry 1 }

--

-- SIP Retry Statistics

--

-- This group contains various statistics objects about  
-- retransmission counts.

--

sipCommonStatsRetryTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatsRetryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains retry statistics objects applicable to each SIP entity in this system."

::= { sipCommonStatsRetry 1 }

sipCommonStatsRetryEntry OBJECT-TYPE

SYNTAX SipCommonStatsRetryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of retry statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatsRetryMethod }

::= { sipCommonStatsRetryTable 1 }

SipCommonStatsRetryEntry ::= SEQUENCE {

sipCommonStatsRetryMethod SipTCMethodName,

sipCommonStatsRetries

Counter32,

sipCommonStatsRetryFinalResponses Counter32,

sipCommonStatsRetryNonFinalResponses Counter32,

sipCommonStatsRetryDisconTime TimeStamp

}

sipCommonStatsRetryMethod OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies the SIP method related to the objects in a row."

::= { sipCommonStatsRetryEntry 1 }

sipCommonStatsRetries OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of request retransmissions that have been sent by the SIP entity. Note that there could be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring

the sipCommonStatsRetryDisconTime object in the same row."

::= { sipCommonStatsRetryEntry 2 }

sipCommonStatsRetryFinalResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of Final Response retries that have been sent by the SIP entity. Note that there could be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by

monitoring the sipCommonStatsRetryDisconTime object in the same row."

::= { sipCommonStatsRetryEntry 3 }

sipCommonStatsRetryNonFinalResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "This object reflects the total number of non-Final Response  
 retries that  
 have been sent by the SIP entity.  
  
 Discontinuities in the value of this counter can occur at  
 re-initialization of the SIP entity or service. A Management  
 Station can detect discontinuities in this counter by  
 monitoring the sipCommonStatsRetryDisconTime object in the same  
 row."  
 ::= { sipCommonStatsRetryEntry 4 }

sipCommonStatsRetryDisconTime OBJECT-TYPE  
 SYNTAX TimeStamp  
 MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "The value of the sysUpTime object when the counters for the  
 retry statistics objects in this row last experienced a  
 discontinuity."  
 ::= { sipCommonStatsRetryEntry 5 }

--  
 -- Other Common Statistics  
 --

sipCommonOtherStatsTable OBJECT-TYPE  
 SYNTAX SEQUENCE OF SipCommonOtherStatsEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "This table contains other common statistics supported by each  
 SIP entity in this system."  
 ::= {  
 sipCommonOtherStats 1 }

sipCommonOtherStatsEntry OBJECT-TYPE  
 SYNTAX SipCommonOtherStatsEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "Information on a particular SIP entity's other common  
 statistics.

Each row represents those objects for a particular SIP entity

present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

```
INDEX { applIndex }
 ::= { sipCommonOtherStatsTable 1 }
```

```
SipCommonOtherStatsEntry ::= SEQUENCE {
    sipCommonOtherStatsNumUnsupportedUris Counter32,
    sipCommonOtherStatsNumUnsupportedMethods Counter32,
    sipCommonOtherStatsOtherwiseDiscardedMsgs Counter32,
    sipCommonOtherStatsDisconTime TimeStamp
}
```

```
sipCommonOtherStatsNumUnsupportedUris OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS
        current
    DESCRIPTION
        "Number of RequestURIs received with an unsupported scheme.
        A server normally responds to such requests with a 400 Bad
        Request status code.

        Discontinuities in the value of this counter can occur at
        re-initialization of the SIP entity or service. A Management
        Station can detect discontinuities in this counter by
        monitoring the sipCommonOtherStatsDisconTime object in the same
        row."
 ::= { sipCommonOtherStatsEntry 1 }
```

```
sipCommonOtherStatsNumUnsupportedMethods OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of SIP requests received with unsupported methods. A
        server normally responds to such requests with a 501 (Not
        Implemented) or 405 (Method Not Allowed).

        Discontinuities in the value of this counter can occur at
        re-initialization of the SIP entity or service. A Management
        Station can
        detect discontinuities in this counter by
        monitoring the sipCommonOtherStatsDisconTime object in the same
        row."
 ::= { sipCommonOtherStatsEntry 2 }
```

```
sipCommonOtherStatsOtherwiseDiscardedMsgs OBJECT-TYPE
```

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of SIP messages received that, for any number of reasons, was discarded without a response.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 3 }

sipCommonOtherStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the statistics objects in this row last experienced a discontinuity."

::= { sipCommonOtherStatsEntry 4 }

--

-- Notification related objects

--

--

-- Status code related notification objects.

--

sipCommonStatusCodeNotifTo OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the value of the To header in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'To: Watson !.'"

::= { sipCommonNotifObjects 1 }

sipCommonStatusCodeNotifFrom OBJECT-TYPE

SYNTAX SnmpAdminString



MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains the value of the From header in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'From: Watson '."  
::= { sipCommonNotifObjects  
2 }

sipCommonStatusCodeNotifCallId OBJECT-TYPE  
SYNTAX SnmpAdminString  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains the value of the Call-ID in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'Call-ID: 5551212@example.com'."  
::= { sipCommonNotifObjects 3 }

sipCommonStatusCodeNotifCSeq OBJECT-TYPE  
SYNTAX Unsigned32  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains the CSeq value in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'CSeq: 1722 INVITE'."  
::= { sipCommonNotifObjects 4 }

--  
-- General notification related objects.  
--

sipCommonNotifApplIndex OBJECT-TYPE  
SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains the applIndex as described in RFC 2788. This object is created in order to allow a variable binding containing a value of applIndex in a notification."  
::= { sipCommonNotifObjects 5 }

sipCommonNotifSequenceNumber OBJECT-TYPE  
SYNTAX Unsigned32 (1..2147483647)  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains a sequence number for each notification  
generated by this SIP entity. Each notification SHOULD have a  
unique sequence number. A network manager can use this  
information to determine whether notifications from a

particular SIP entity have been missed. The value of this  
object MUST start at 1 and increase by 1 with each generated  
notification. If a system restarts, the sequence number MAY  
start again from 1."

::= { sipCommonNotifObjects  
6 }

--

-- Notifications

--

sipCommonStatusCodeNotif NOTIFICATION-TYPE

OBJECTS {  
sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonStatusCodeNotifTo,  
sipCommonStatusCodeNotifFrom,  
sipCommonStatusCodeNotifCallId,  
sipCommonStatusCodeNotifCSeq,  
sipCommonStatusCodeIns,  
sipCommonStatusCodeOuts

}

STATUS current

DESCRIPTION

"Signifies that a specific status code has been sent or received  
by the system."

::= { sipCommonMIBNotifications 1 }

sipCommonStatusCodeThreshExceededInNotif NOTIFICATION-TYPE

OBJECTS {  
sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonStatusCodeIns

}

STATUS current

DESCRIPTION

"Signifies that a specific status code was found to have been received by the system frequently enough to exceed the configured threshold. This notification can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif."

```
 ::= { sipCommonMIBNotifications 2 }
```

sipCommonStatusCodeThreshExceededOutNotif NOTIFICATION-TYPE

```
 OBJECTS {
   sipCommonNotifSequenceNumber,
   sipCommonNotifApplIndex,
   sipCommonStatusCodeOuts
 }
 STATUS    current
```

#### DESCRIPTION

"Signifies that a specific status code was found to have been sent by the system enough to exceed the configured threshold. This notification can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif."

```
 ::= { sipCommonMIBNotifications 3 }
```

sipCommonServiceColdStart NOTIFICATION-TYPE

```
 OBJECTS {
   sipCommonNotifSequenceNumber,
   sipCommonNotifApplIndex,
   sipCommonCfgServiceStartTime
 }
 STATUS    current
```

#### DESCRIPTION

"Signifies that the SIP service has reinitialized itself or started for the first time. This SHOULD result from a hard 'down' to 'up' administrative status change. The configuration or behavior of the service MAY be altered."

```
 ::= { sipCommonMIBNotifications 4 }
```

sipCommonServiceWarmStart NOTIFICATION-TYPE

```
 OBJECTS {
   sipCommonNotifSequenceNumber,
   sipCommonNotifApplIndex,
   sipCommonCfgServiceLastChange
 }
 STATUS    current
```

#### DESCRIPTION

"Signifies that the SIP service has reinitialized itself and is restarting after an administrative 'reset'. The configuration or behavior of the service MAY be altered."

::= { sipCommonMIBNotifications 5 }

sipCommonServiceStatusChanged NOTIFICATION-TYPE

OBJECTS {

    sipCommonNotifSequenceNumber,

    sipCommonNotifApplIndex,

    sipCommonCfgServiceLastChange,

    sipCommonCfgServiceOperStatus

}

STATUS current

DESCRIPTION

    "Signifies that the SIP service operational status has changed."

::= { sipCommonMIBNotifications 6 }

--

-- Conformance

--

sipCommonMIBCompliances

    OBJECT IDENTIFIER

    ::= { sipCommonMIBConformance 1 }

sipCommonMIBGroups

    OBJECT IDENTIFIER ::= { sipCommonMIBConformance 2 }

--

-- Compliance Statements

--

sipCommonCompliance MODULE-COMPLIANCE

    STATUS current

    DESCRIPTION

        "The compliance statement for SIP entities."

    MODULE -- this module

        MANDATORY-GROUPS { sipCommonConfigGroup,

            sipCommonStatsGroup

        }

    OBJECT sipCommonStatusCodeRowStatus

    SYNTAX RowStatus { active(1) }

    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

    DESCRIPTION

        "Support for createAndWait and notInService is not required."

OBJECT sipCommonCfgServiceNotifEnable  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object is optional and does not need to be supported."

GROUP sipCommonInformationalGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any support for these objects, as they provide optional information."

GROUP sipCommonConfigTimerGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any timer configuration."

GROUP sipCommonStatsRetryGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any retry statistics."

GROUP sipCommonNotifGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonStatusCodeNotifGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonNotifObjectsGroup  
DESCRIPTION  
"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifGroup MUST also be implemented."

::= { sipCommonMIBCompliances 1 }

```
--
-- Units of Conformance
--
sipCommonConfigGroup OBJECT-GROUP
  OBJECTS {
    sipCommonCfgProtocolVersion,
    sipCommonCfgServiceOperStatus,
    sipCommonCfgServiceStartTime,
    sipCommonCfgServiceLastChange,
    sipCommonPortTransportRcv,
    sipCommonOptionTag,
    sipCommonOptionTagHeaderField,
    sipCommonCfgMaxTransactions,
    sipCommonCfgServiceNotifEnable,
    sipCommonCfgEntityType,
    sipCommonMethodSupportedName
  }
  STATUS current
  DESCRIPTION
    "A collection of objects providing configuration common to all
    SIP entities."
  ::= { sipCommonMIBGroups 1 }
```

```
sipCommonInformationalGroup OBJECT-GROUP
  OBJECTS {
    sipCommonCfgOrganization
  }
  STATUS current
```

```
DESCRIPTION
  "A collection of objects providing configuration common to all
  SIP entities."
  ::= { sipCommonMIBGroups 2 }
```

```
sipCommonConfigTimerGroup OBJECT-GROUP
  OBJECTS {
    sipCommonCfgTimerA,
    sipCommonCfgTimerB,
    sipCommonCfgTimerC,
    sipCommonCfgTimerD,
    sipCommonCfgTimerE,
    sipCommonCfgTimerF,
    sipCommonCfgTimerG,
    sipCommonCfgTimerH,
    sipCommonCfgTimerI,
    sipCommonCfgTimerJ,
```

```
    sipCommonCfgTimerK,  
    sipCommonCfgTimerT1,  
    sipCommonCfgTimerT2,  
    sipCommonCfgTimerT4  
}  
STATUS current  
DESCRIPTION  
    "A collection of objects providing timer configuration common to  
    all SIP entities."  
::= { sipCommonMIBGroups 3 }
```

sipCommonStatsGroup OBJECT-GROUP

```
OBJECTS {  
    sipCommonSummaryInRequests,  
    sipCommonSummaryOutRequests,  
  
    sipCommonSummaryInResponses,  
    sipCommonSummaryOutResponses,  
    sipCommonSummaryTotalTransactions,  
    sipCommonSummaryDisconTime,  
    sipCommonMethodStatsOutbounds,  
    sipCommonMethodStatsInbounds,  
    sipCommonMethodStatsDisconTime,  
    sipCommonStatusCodeIns,  
    sipCommonStatusCodeOuts,  
    sipCommonStatusCodeRowStatus,  
    sipCommonStatusCodeDisconTime,  
    sipCommonTransCurrentactions,  
    sipCommonOtherStatsNumUnsupportedUris,  
    sipCommonOtherStatsNumUnsupportedMethods,  
    sipCommonOtherStatsOtherwiseDiscardedMsgs,  
    sipCommonOtherStatsDisconTime  
  
}
```

```
STATUS current  
DESCRIPTION  
    "A collection of objects providing statistics common to all SIP  
    entities."  
::= { sipCommonMIBGroups 4 }
```

sipCommonStatsRetryGroup OBJECT-GROUP

```
OBJECTS {  
    sipCommonStatsRetries,  
    sipCommonStatsRetryFinalResponses,  
    sipCommonStatsRetryNonFinalResponses,  
    sipCommonStatsRetryDisconTime  
}
```

```
}
STATUS current
DESCRIPTION
  "A collection of objects providing retry statistics."
::= { sipCommonMIBGroups 5 }
```

```
sipCommonNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS {
    sipCommonStatusCodeNotif,
    sipCommonStatusCodeThreshExceededInNotif,
    sipCommonStatusCodeThreshExceededOutNotif,
    sipCommonServiceColdStart,
    sipCommonServiceWarmStart,
    sipCommonServiceStatusChanged
  }
```

```
STATUS current
DESCRIPTION
  "A collection of notifications common to all SIP entities."
::= { sipCommonMIBGroups 6 }
```

```
sipCommonStatusCodeNotifGroup OBJECT-GROUP
  OBJECTS {
    sipCommonStatusCodeNotifSend,
    sipCommonStatusCodeNotifEmitMode,
    sipCommonStatusCodeNotifThresh,
    sipCommonStatusCodeNotifInterval
  }
```

```
STATUS current
DESCRIPTION
  "A collection of
objects related to the control and attribution
of notifications common to all SIP entities."
::= { sipCommonMIBGroups 7 }
```

```
sipCommonNotifObjectsGroup OBJECT-GROUP
```

```
  OBJECTS {
    sipCommonStatusCodeNotifTo,
    sipCommonStatusCodeNotifFrom,
    sipCommonStatusCodeNotifCallId,
    sipCommonStatusCodeNotifCSeq,
    sipCommonNotifAppIndex,
    sipCommonNotifSequenceNumber
  }
STATUS current
```



DESCRIPTION

"A collection of accessible-for-notify objects related to the notification defined in this MIB module."

::= { sipCommonMIBGroups 8 }

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-COMMON-MIB

No license file was found, but licenses were detected in source scan.

DIFFSERV-MIB DEFINITIONS ::= BEGIN

IMPORTS

Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,  
OBJECT-IDENTITY, zeroDotZero, mib-2

FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, RowPointer,  
StorageType, AutonomousType

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF

ifIndex, InterfaceIndexOrZero

FROM IF-MIB

InetAddressType, InetAddress, InetAddressPrefixLength,  
InetPortNumber

FROM INET-ADDRESS-MIB

BurstSize

FROM INTEGRATED-SERVICES-MIB

Dscp, DscpOrAny

FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY

LAST-UPDATED "200202070000Z"

ORGANIZATION "IETF Differentiated Services WG"

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diffserv@ietf.org"

DESCRIPTION

"This MIB defines the objects necessary to manage a device that uses the Differentiated Services Architecture described in RFC 2475. The Conceptual Model of a Differentiated Services Router provides supporting information on how such a router is modeled."

REVISION "200202070000Z"

DESCRIPTION

"Initial version, published as RFC 3289."

::= { mib-2 97 }

diffServMIBObjects OBJECT IDENTIFIER ::= { diffServMib 1 }  
diffServMIBConformance OBJECT IDENTIFIER ::= { diffServMib 2 }  
diffServMIBAdmin  
OBJECT IDENTIFIER ::= { diffServMib 3 }

IndexInteger ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a table index."

SYNTAX Unsigned32 (1..4294967295)

IndexIntegerNextFree ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a new Index in a table.

The special value of 0 indicates that no more new entries can be created in the relevant table.

When a MIB is used for configuration, an object with this SYNTAX always contains a legal value (if non-zero) for an index that is not currently used in the relevant table. The Command Generator (Network Management Application) reads this variable and uses the

(non-zero) value read when creating a new row with an SNMP SET. When the SET is performed, the Command Responder (agent) must determine whether the value is indeed still unused; Two Network

Management Applications may attempt to create a row (configuration entry) simultaneously and use the same value. If it is currently unused, the SET succeeds and the Command Responder (agent) changes the value of this object, according to an implementation-specific algorithm. If the value is in use,

however, the SET fails. The Network Management Application must then re-read this variable to obtain a new usable value.

An OBJECT-TYPE definition using this SYNTAX MUST specify the relevant table for which the object is providing this functionality."

SYNTAX Unsigned32 (0..4294967295)

IfDirection ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"IfDirection specifies a direction of data travel on an interface. 'inbound' traffic is operated on during reception from the interface, while 'outbound' traffic is operated on prior to transmission on

the interface."

SYNTAX INTEGER {

inbound(1), -- ingress interface

outbound(2) -- egress interface

}

--

-- Data Path

--

diffServDataPath OBJECT IDENTIFIER ::= { diffServMIBObjects 1 }

--

-- Data Path Table

--

-- The Data Path Table enumerates the Differentiated Services

-- Functional Data Paths within this device. Each entry in this table

-- is indexed by ifIndex and ifDirection. Each entry provides the

-- first Differentiated Services Functional Data Path Element to

-- process data flowing along specific data path. This table should

-- have at most two entries for each interface capable of

-- Differentiated Services processing on this device: ingress and  
-- egress.

-- Note that Differentiated Services Functional Data Path Elements  
-- linked together using their individual next pointers and anchored by  
-- an entry of the diffServDataPathTable constitute a functional data  
-- path.

--

#### diffServDataPathTable OBJECT-TYPE

##### SYNTAX

SEQUENCE OF DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

##### DESCRIPTION

"The data path table contains RowPointers indicating the start of the functional data path for each interface and traffic direction in this device. These may merge, or be separated into parallel data paths."

::= { diffServDataPath 1 }

#### diffServDataPathEntry OBJECT-TYPE

SYNTAX DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

##### DESCRIPTION

"An entry in the data path table indicates the start of a single Differentiated Services Functional Data Path in this device.

These are associated with individual interfaces, logical or physical, and therefore are instantiated by ifIndex. Therefore, the interface index must have been assigned, according to the procedures applicable to that, before it can be meaningfully used. Generally, this means that the interface must exist.

When diffServDataPathStorage is of type nonVolatile, however, this may reflect the configuration for an interface whose ifIndex has been assigned but for which the supporting implementation is not currently present."

INDEX { ifIndex, diffServDataPathIfDirection }

::= { diffServDataPathTable 1 }

DiffServDataPathEntry ::= SEQUENCE {  
diffServDataPathIfDirection IfDirection,

```
diffServDataPathStart    RowPointer,  
diffServDataPathStorage  StorageType,  
diffServDataPathStatus   RowStatus  
}
```

diffServDataPathIfDirection OBJECT-TYPE

```
SYNTAX    IfDirection  
MAX-ACCESS not-accessible  
STATUS    current  
DESCRIPTION  
    "IfDirection specifies whether the reception or transmission path  
    for this interface is in view."  
 ::= { diffServDataPathEntry 1 }
```

diffServDataPathStart OBJECT-TYPE

```
SYNTAX    RowPointer  
MAX-ACCESS read-create  
STATUS    current
```

DESCRIPTION

"This selects the first Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:  
diffServClfrEntry  
diffServMeterEntry  
diffServActionEntry  
diffServAlgDropEntry  
diffServQEntry

A value of zeroDotZero in this attribute indicates that no Differentiated Services treatment is performed on traffic of this data path. A pointer with the value zeroDotZero normally terminates a functional data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
::= { diffServDataPathEntry 2 }
```

diffServDataPathStorage OBJECT-TYPE

```
SYNTAX    StorageType  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION
```

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServDataPathEntry 3 }

diffServDataPathStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time."

::= { diffServDataPathEntry 4 }

--

-- Classifiers

--

diffServClassifier OBJECT IDENTIFIER ::= { diffServMIBObjects 2 }

--

-- Classifier Table

--

-- The Classifier Table allows multiple classifier elements, of same or  
-- different types, to be used together. A classifier must completely  
-- classify all packets presented to it. This means that all traffic  
-- presented to a classifier must match at least one classifier element  
-- within the classifier, with the classifier element parameters

--

specified by a filter.

-- If there is ambiguity between classifier elements of different  
-- classifier, classifier linkage order indicates their precedence; the  
-- first classifier in the link is applied to the traffic first.

-- Entries in the classifier element table serves as the anchor for  
-- each classification pattern, defined in filter table entries. Each  
-- classifier element table entry also specifies the subsequent  
-- downstream Differentiated Services Functional Data Path Element when  
-- the classification pattern is satisfied. Each entry in the  
-- classifier element table describes one branch of the fan-out  
-- characteristic of a classifier indicated in the Informal  
-- Differentiated Services Model section 4.1. A classifier is composed  
-- of one or more classifier elements.

diffServClfrNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServClfrId,

or a

zero to indicate that none exist."

::= { diffServClassifier 1 }

diffServClfrTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates all the diffserv classifier functional data path elements of this device. The actual classification definitions are defined in diffServClfrElementTable entries belonging to each classifier.

An entry in this table, pointed to by a RowPointer specifying an instance of diffServClfrStatus, is frequently used as the name for a set of classifier elements, which all use the index diffServClfrId. Per the semantics of the classifier element table, these entries constitute one or more unordered sets of tests which may be simultaneously applied to a message to

classify it.

The primary function of this table is to ensure that the value of diffServClfrId

is unique before attempting to use it in creating

a diffServClfrElementEntry. Therefore, the diffServClfrEntry must be created on the same SET as the diffServClfrElementEntry, or before the diffServClfrElementEntry is created."

::= { diffServClassifier 2 }

diffServClfrEntry OBJECT-TYPE

SYNTAX DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the classifier table describes a single classifier.

All classifier elements belonging to the same classifier use the classifier's diffServClfrId as part of their index."

```

INDEX { diffServClfrId }
::= { diffServClfrTable 1 }

DiffServClfrEntry ::= SEQUENCE {
    diffServClfrId      IndexInteger,
    diffServClfrStorage StorageType,
    diffServClfrStatus RowStatus
}

diffServClfrId OBJECT-TYPE
    SYNTAX      IndexInteger
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION

        "An index that enumerates the classifier entries. Managers
        should obtain new values for row creation in this table by
        reading diffServClfrNextFree."
    ::= { diffServClfrEntry 1 }

diffServClfrStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

        "The storage type for this conceptual row. Conceptual rows
        having the value 'permanent' need not allow write-access to any
        columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServClfrEntry 2 }

diffServClfrStatus OBJECT-TYPE

    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

        "The status of this conceptual row. All writable objects in this
        row may be modified at any time. Setting this variable to
        'destroy' when the MIB contains one or more RowPointers pointing
        to it results in destruction being delayed until the row is no
        longer used."
    ::= { diffServClfrEntry 3 }

--
-- Classifier Element Table

```



--

diffServClfrElementNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServClfrElementId, or a zero to indicate that none exist."

::= { diffServClassifier 3 }

diffServClfrElementTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrElementEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The classifier element table enumerates the relationship between classification patterns and subsequent downstream Differentiated Services Functional Data Path elements.

diffServClfrElementSpecific points to a filter that specifies the classification parameters. A classifier may use filter tables of different types together.

One example of a filter table defined in this MIB is

diffServMultiFieldClfrTable, for

IP Multi-Field Classifiers

(MFCs). Such an entry might identify anything from a single micro-flow (an identifiable sub-session packet stream directed from one sending transport to the receiving transport or transports), or aggregates of those such as the traffic from a host, traffic for an application, or traffic between two hosts using an application and a given DSCP. The standard Behavior Aggregate used in the Differentiated Services Architecture is encoded as a degenerate case of such an aggregate - the traffic using a particular DSCP value.

Filter tables for other filter types may be defined elsewhere."

::= { diffServClassifier 4 }

diffServClfrElementEntry OBJECT-TYPE

SYNTAX DiffServClfrElementEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the classifier element table describes a single element of the classifier."

```
INDEX { diffServClfrId,  
diffServClfrElementId }  
::= { diffServClfrElementTable 1 }
```

```
DiffServClfrElementEntry ::= SEQUENCE {  
diffServClfrElementId      IndexInteger,  
diffServClfrElementPrecedence Unsigned32,  
diffServClfrElementNext    RowPointer,  
diffServClfrElementSpecific RowPointer,  
diffServClfrElementStorage StorageType,  
diffServClfrElementStatus  RowStatus  
}
```

diffServClfrElementId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Classifier Element entries.

Managers obtain new values for row creation in this table by reading diffServClfrElementNextFree."

```
::= { diffServClfrElementEntry 1 }
```

diffServClfrElementPrecedence OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The relative order in which classifier elements are applied:  
higher numbers

represent classifier element with higher precedence. Classifier elements with the same order must be unambiguous i.e. they must define non-overlapping patterns, and are considered to be applied simultaneously to the traffic stream. Classifier elements with different order may overlap in their filters: the classifier element with the highest order that matches is taken.

On a given interface, there must be a complete classifier in place at all times in the ingress direction. This means one or more filters must match any possible pattern. There is no such

requirement in the egress direction."

```
::= { diffServClfrElementEntry 2 }
```

diffServClfrElementNext OBJECT-TYPE

SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This attribute provides one branch of the fan-out functionality of a classifier described in the Informal Differentiated Services

Model section 4.1.

This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry  
diffServMeterEntry  
diffServActionEntry  
diffServAlgDropEntry  
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServClfrElementEntry 3 }

diffServClfrElementSpecific OBJECT-TYPE

SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"A pointer to a valid entry in another table, filter table, that describes the applicable classification parameters, e.g. an entry in diffServMultiFieldClfrTable.

The value zeroDotZero is interpreted to match anything not matched by another classifier element - only one such entry may exist for each classifier.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the element is ignored."  
::= { diffServClfrElementEntry 4 }

diffServClfrElementStorage OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL  
{ nonVolatile }  
::= { diffServClfrElementEntry 5 }

diffServClfrElementStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServClfrElementEntry 6 }

--

-- IP Multi-field Classification Table

--

-- Classification based on six different fields in the IP header.

-- Functional Data Paths may share definitions by using the same entry.

--

diffServMultiFieldClfrNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object contains an unused value for diffServMultiFieldClfrId, or a zero to indicate that none exist."

::= {  
diffServClassifier 5 }

diffServMultiFieldClfrTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMultiFieldClfrEntry  
MAX-ACCESS not-accessible  
STATUS current

## DESCRIPTION

"A table of IP Multi-field Classifier filter entries that a

system may use to identify IP traffic."

::= { diffServClassifier 6 }

## diffServMultiFieldClfrEntry OBJECT-TYPE

SYNTAX DiffServMultiFieldClfrEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An IP Multi-field Classifier entry describes a single filter."

INDEX { diffServMultiFieldClfrId }

::= { diffServMultiFieldClfrTable 1 }

## DiffServMultiFieldClfrEntry ::= SEQUENCE {

diffServMultiFieldClfrId IndexInteger,

diffServMultiFieldClfrAddrType InetAddressType,

diffServMultiFieldClfrDstAddr InetAddress,

diffServMultiFieldClfrDstPrefixLength InetAddressPrefixLength,

diffServMultiFieldClfrSrcAddr InetAddress,

diffServMultiFieldClfrSrcPrefixLength

InetAddressPrefixLength,

diffServMultiFieldClfrDscp DscpOrAny,

diffServMultiFieldClfrFlowId Unsigned32,

diffServMultiFieldClfrProtocol Unsigned32,

diffServMultiFieldClfrDstL4PortMin InetPortNumber,

diffServMultiFieldClfrDstL4PortMax InetPortNumber,

diffServMultiFieldClfrSrcL4PortMin InetPortNumber,

diffServMultiFieldClfrSrcL4PortMax InetPortNumber,

diffServMultiFieldClfrStorage StorageType,

diffServMultiFieldClfrStatus RowStatus

}

## diffServMultiFieldClfrId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An index that enumerates the MultiField Classifier filter entries. Managers obtain new values for row creation in this table by reading diffServMultiFieldClfrNextFree."

::= { diffServMultiFieldClfrEntry 1 }

## diffServMultiFieldClfrAddrType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of IP address used by this classifier entry. While other types of addresses are defined in the InetAddressType

textual convention, and DNS names, a classifier can only look at packets on the wire. Therefore, this object is limited to IPv4 and IPv6 addresses."

::= { diffServMultiFieldClfrEntry 2 }

diffServMultiFieldClfrDstAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP address to match against the packet's destination IP address. This may not be a DNS name, but may be an IPv4 or IPv6 prefix. diffServMultiFieldClfrDstPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 3 }

diffServMultiFieldClfrDstPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS "bits"

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrDstAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 4 }

diffServMultiFieldClfrSrcAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP address to match against the packet's source IP address."

This may not be a DNS name, but may be an IPv4 or IPv6 prefix.  
diffServMultiFieldClfrSrcPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 5 }

#### diffServMultiFieldClfrSrcPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS

"bits"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrSrcAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 6 }

#### diffServMultiFieldClfrDscp OBJECT-TYPE

SYNTAX DscpOrAny

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value that the DSCP in the packet must have to match this entry. A value of -1 indicates that a specific DSCP value has not been defined and thus all DSCP values are considered a match."

DEFVAL { -1 }

::= { diffServMultiFieldClfrEntry 7 }

#### diffServMultiFieldClfrFlowId OBJECT-TYPE

SYNTAX Unsigned32 (0..1048575)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The flow identifier in an IPv6 header."

::= { diffServMultiFieldClfrEntry 8 }

#### diffServMultiFieldClfrProtocol OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The IP protocol to match against the IPv4 protocol number or the IPv6 Next- Header number in the packet. A value of 255 means match all. Note the protocol number of 255 is reserved by IANA, and Next-Header number of 0 is used in IPv6."

DEFVAL { 255 }

::= { diffServMultiFieldClfrEntry 9 }

diffServMultiFieldClfrDstL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 destination port number in the packet must have in order to match this classifier entry."

DEFVAL

{ 0 }

::= { diffServMultiFieldClfrEntry 10 }

diffServMultiFieldClfrDstL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum value that the layer-4 destination port number in the packet must have in order to match this classifier entry.

This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrDstL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 11 }

diffServMultiFieldClfrSrcL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 source port number in the packet must have in order to match this classifier entry."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 12 }

diffServMultiFieldClfrSrcL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current



DESCRIPTION

"The maximum value that the layer-4 source port number in the packet must have in order to match this classifier entry. This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrSrcL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 13 }

diffServMultiFieldClfrStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMultiFieldClfrEntry 14 }

diffServMultiFieldClfrStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMultiFieldClfrEntry 15 }

--

-- Meters

--

diffServMeter OBJECT IDENTIFIER ::= { diffServMIBObjects 3 }

--

-- This MIB supports a variety of Meters. It includes a specific definition for Token Bucket Meter, which are but one type of specification. Other metering parameter sets can be defined in other MIBs.

-- Multiple meter elements may be logically cascaded using their

-- diffServMeterSucceedNext and diffServMeterFailNext pointers if  
-- required. One example of this might be for an AF PHB implementation  
-- that uses multiple level conformance meters.

-- Cascading of individual meter elements in the MIB is intended to be  
-- functionally equivalent to multiple level conformance determination  
-- of a packet.

The sequential nature of the representation is merely  
-- a notational convenience for this MIB.

-- srTCM meters (RFC 2697) can be specified using two sets of  
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Information Rate and Committed Burst Size  
-- token-bucket. The second set specifies the Excess Burst Size  
-- token-bucket.

-- trTCM meters (RFC 2698) can be specified using two sets of  
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Information Rate and Committed Burst Size  
-- token-bucket. The second set specifies the Peak Information Rate  
-- and Peak Burst Size token-bucket.

-- tswTCM meters (RFC 2859) can be specified using two sets of  
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Target Rate token-bucket. The second set specifies

-- the Peak Target Rate token-bucket. diffServTBParamInterval in each  
-- token bucket reflects the Average Interval.

--

diffServMeterNextFree

OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMeterId, or a  
zero to indicate that none exist."

::= { diffServMeter 1 }

diffServMeterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMeterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates specific meters that a system may use to

police a stream of traffic. The traffic stream to be metered is determined by the Differentiated Services Functional Data Path Element(s) upstream of the meter i.e. by the object(s) that point to each entry in this table. This may include all traffic on an interface.

Specific meter details are to be found in table entry referenced by diffServMeterSpecific."

::= { diffServMeter 2 }

diffServMeterEntry OBJECT-TYPE

SYNTAX DiffServMeterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the meter table describes a single conformance level of a meter."

INDEX { diffServMeterId }

::= { diffServMeterTable 1 }

DiffServMeterEntry ::= SEQUENCE {

diffServMeterId IndexInteger,

diffServMeterSucceedNext RowPointer,

diffServMeterFailNext RowPointer,

diffServMeterSpecific RowPointer,

diffServMeterStorage StorageType,

diffServMeterStatus RowStatus

}

diffServMeterId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Meter entries. Managers obtain new values for row creation in this table by reading diffServMeterNextFree."

::= { diffServMeterEntry 1 }

diffServMeterSucceedNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"If the traffic does conform, this selects the next Differentiated Services Functional Data Path element to handle traffic for this data path. This RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry
- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates that no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL { zeroDotZero }  
::= { diffServMeterEntry  
2 }
```

#### diffServMeterFailNext OBJECT-TYPE

```
SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"If the traffic does not conform, this selects the next Differentiated Services Functional Data Path element to handle traffic for this data path. This RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry

- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL { zeroDotZero }  
::= { diffServMeterEntry 3 }
```

#### diffServMeterSpecific OBJECT-TYPE

```
SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"This indicates the behavior of the meter by pointing to an entry containing detailed parameters. Note that entries in that specific table must be managed explicitly.

For example, diffServMeterSpecific may point to an entry in diffServTBParamTable, which contains an instance of a single set of Token Bucket parameters.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the meter always succeeds."

```
::= { diffServMeterEntry 4 }
```

#### diffServMeterStorage OBJECT-TYPE

```
SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

```
DEFVAL { nonVolatile }  
::= { diffServMeterEntry 5 }
```

#### diffServMeterStatus OBJECT-TYPE

```
SYNTAX RowStatus  
MAX-ACCESS read-create
```

```
STATUS current
```

#### DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

```

 ::= { diffServMeterEntry 6 }

--
-- Token Bucket Parameter Table
--

diffServTBParam    OBJECT IDENTIFIER ::= { diffServMIBObjects 4 }

-- Each entry in the Token Bucket Parameter Table parameterize a single
-- token bucket. Multiple token buckets can be used together to
-- parameterize multiple levels of conformance.

-- Note that
-- an entry in the Token Bucket Parameter Table can be shared
-- by multiple diffServMeterTable entries.
--

diffServTBParamNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains an unused value for diffServTBParamId, or a
        zero to indicate that none exist."
    ::= { diffServTBParam 1 }

diffServTBParamTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DiffServTBParamEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table enumerates a single set of token bucket meter
        parameters that a system may use to police a stream of traffic.
        Such meters are modeled here as having a single rate and a single
        burst size. Multiple entries are used when multiple rates/burst
        sizes are needed."
    ::= { diffServTBParam 2 }

diffServTBParamEntry OBJECT-TYPE
    SYNTAX      DiffServTBParamEntry
    MAX-ACCESS  not-accessible
    STATUS      current

    DESCRIPTION
        "An entry that describes a single set of token bucket

```

```
parameters."
INDEX { diffServTBParamId }
 ::= { diffServTBParamTable 1 }
```

```
DiffServTBParamEntry ::= SEQUENCE {
diffServTBParamId      IndexInteger,
diffServTBParamType    AutonomousType,
diffServTBParamRate    Unsigned32,
diffServTBParamBurstSize  BurstSize,
diffServTBParamInterval  Unsigned32,
diffServTBParamStorage  StorageType,
diffServTBParamStatus   RowStatus
}
```

diffServTBParamId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Token Bucket Parameter entries.

Managers obtain new values for row creation in this table by reading diffServTBParamNextFree."

```
 ::= { diffServTBParamEntry 1 }
```

diffServTBParamType OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The Metering algorithm associated with the Token Bucket parameters. zeroDotZero indicates this is unknown.

Standard values for generic algorithms:

diffServTBParamSimpleTokenBucket, diffServTBParamAvgRate, diffServTBParamSrTCMBlind, diffServTBParamSrTCMAware, diffServTBParamTrTCMBlind, diffServTBParamTrTCMAware, and diffServTBParamTswTCM are specified in this MIB as OBJECT-IDENTITYs; additional values may be further specified in other MIBs."

```
 ::= { diffServTBParamEntry 2 }
```

diffServTBParamRate OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The token-bucket rate, in kilobits per second (kbps). This attribute is used for:

1. CIR in RFC 2697 for srTCM
2. CIR and PIR in RFC 2698 for trTCM
3. CTR and PTR in RFC 2859 for TSWTCM

4. AverageRate in RFC 3290."

::= { diffServTBParamEntry 3 }

## diffServTBParamBurstSize OBJECT-TYPE

SYNTAX BurstSize

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The maximum number of bytes in a single transmission burst. This attribute is used for:

1. CBS and EBS in RFC 2697 for srTCM
2. CBS and PBS in RFC 2698 for trTCM
3. Burst Size in RFC 3290."

::= { diffServTBParamEntry 4 }

## diffServTBParamInterval OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "microseconds"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The time interval used with the token bucket. For:

1. Average Rate Meter, the Informal Differentiated Services Model section 5.2.1, - Delta.
2. Simple Token Bucket Meter, the Informal Differentiated Services Model section 5.1, - time interval t.
3. RFC 2859 TSWTCM, - AVG\_INTERVAL.
4. RFC 2697 srTCM, RFC 2698 trTCM, - token bucket update time interval."

::= { diffServTBParamEntry 5 }

## diffServTBParamStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any



columnar objects in the row."  
DEFVAL { nonVolatile }  
::= { diffServTBParamEntry 6 }

diffServTBParamStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServTBParamEntry 7 }

--  
-- OIDs for diffServTBParamType  
-- definitions.  
--

diffServTBMeters OBJECT IDENTIFIER ::= { diffServMIBAdmin 1 }

diffServTBParamSimpleTokenBucket OBJECT-IDENTITY

STATUS current  
DESCRIPTION

"Two Parameter Token Bucket Meter as described in the Informal Differentiated Services Model section 5.2.3."

::= { diffServTBMeters 1 }

diffServTBParamAvgRate OBJECT-IDENTITY

STATUS current  
DESCRIPTION

"Average Rate Meter as described in the Informal Differentiated Services Model section 5.2.1."

::= { diffServTBMeters 2 }

diffServTBParamSrTCMBlind OBJECT-IDENTITY

STATUS current  
DESCRIPTION

"Single Rate Three Color Marker Metering as defined by RFC 2697, in the 'Color Blind' mode as described by the RFC."

REFERENCE

"RFC 2697"

::= { diffServTBMeters 3 }

diffServTBParamSrTCMAware OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"Single Rate Three Color Marker Metering as defined by RFC 2697,  
in the  
'Color Aware' mode as described by the RFC."  
REFERENCE  
"RFC 2697"

::= { diffServTBMeters 4 }

diffServTBParamTrTCMBlind OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"Two Rate Three Color Marker Metering as defined by RFC 2698, in  
the 'Color Blind' mode as described by the RFC."  
REFERENCE  
"RFC 2698"

::= { diffServTBMeters 5 }

diffServTBParamTrTCMAware OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"Two Rate Three Color Marker Metering as defined by RFC 2698, in  
the 'Color Aware' mode as described by the RFC."  
REFERENCE  
"RFC 2698"

::= { diffServTBMeters 6 }

diffServTBParamTswTCM OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"Time Sliding Window Three Color Marker Metering as defined by  
RFC 2859."  
REFERENCE  
"RFC 2859"

::= { diffServTBMeters 7 }

--  
-- Actions  
--

diffServAction OBJECT IDENTIFIER ::= { diffServMIBObjects 5 }

--  
-- The Action

Table allows enumeration of the different types of

-- actions to be applied to a traffic flow.

--

diffServActionNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServActionId, or a zero to indicate that none exist."

::= { diffServAction 1 }

diffServActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Action Table enumerates actions that can be performed to a stream of traffic. Multiple actions can be concatenated. For example, traffic exiting from a meter may be counted, marked, and potentially dropped before entering a queue.

Specific actions are indicated by diffServActionSpecific which points to an entry of a specific action type parameterizing the action in detail."

::= { diffServAction

2 }

diffServActionEntry OBJECT-TYPE

SYNTAX DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each entry in the action table allows description of one specific action to be applied to traffic."

INDEX { diffServActionId }

::= { diffServActionTable 1 }

DiffServActionEntry ::= SEQUENCE {

diffServActionId IndexInteger,

diffServActionInterface InterfaceIndexOrZero,

diffServActionNext RowPointer,

diffServActionSpecific RowPointer,

diffServActionStorage StorageType,

diffServActionStatus RowStatus

}

diffServActionId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Action entries. Managers obtain new values for row creation in this table by reading diffServActionNextFree."

::= { diffServActionEntry 1 }

diffServActionInterface

OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interface index (value of ifIndex) that this action occurs on. This may be derived from the diffServDataPathStartEntry's index by extension through the various RowPointers. However, as this may be difficult for a network management station, it is placed here as well. If this is indeterminate, the value is zero.

This is of especial relevance when reporting the counters which may apply to traffic crossing an interface:

diffServCountActOctets,  
diffServCountActPkts,  
diffServAlgDropOctets,  
diffServAlgDropPkts,  
diffServAlgRandomDropOctets, and  
diffServAlgRandomDropPkts.

It is also especially relevant to the queue and scheduler which may be subsequently applied."

::= { diffServActionEntry 2 }

diffServActionNext

OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Functional Data

Path Element to handle traffic for this data path. This

RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry
- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL

{ zeroDotZero }

::= { diffServActionEntry 3 }

diffServActionSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A pointer to an object instance providing additional information for the type of action indicated by this action table entry.

For the standard actions defined by this MIB module, this should point to either a diffServDscpMarkActEntry or a diffServCountActEntry. For other actions, it may point to an object instance defined in some other MIB.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the Meter should be treated as if it were not present. This may lead to incorrect policy behavior."

::= { diffServActionEntry 4 }

diffServActionStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current  
DESCRIPTION  
"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."  
DEFVAL { nonVolatile }  
::= { diffServActionEntry 5 }

diffServActionStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."  
::= { diffServActionEntry 6 }

-- DSCP Mark Action Table  
--  
-- Rows of this table are pointed to by diffServActionSpecific to  
-- provide detailed parameters specific to the DSCP Mark action.  
--  
-- A single entry in this table can be shared by multiple

-- diffServActionTable entries.  
--

diffServDscpMarkActTable

OBJECT-TYPE  
SYNTAX SEQUENCE OF DiffServDscpMarkActEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This table enumerates specific DSCPs used for marking or remarking the DSCP field of IP packets. The entries of this table may be referenced by a diffServActionSpecific attribute."  
::= { diffServAction 3 }

diffServDscpMarkActEntry OBJECT-TYPE

SYNTAX DiffServDscpMarkActEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"An entry in the DSCP mark action table that describes a single DSCP used for marking."  
INDEX { diffServDscpMarkActDscp }  
::= { diffServDscpMarkActTable 1 }

DiffServDscpMarkActEntry ::= SEQUENCE {  
diffServDscpMarkActDscp Dscp  
}

diffServDscpMarkActDscp OBJECT-TYPE

SYNTAX Dscp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The DSCP that this Action will store into the DSCP field of the

subject. It is quite possible that the only packets subject to this Action are already marked with this DSCP. Note also that Differentiated Services processing may result in packet being marked on both ingress to a network and on egress from it, and that ingress and egress can occur in the same router."

::= { diffServDscpMarkActEntry 1 }

--

-- Count Action Table

--

-- Because the MIB structure allows multiple cascading

-- diffServActionEntry be used to describe multiple actions for a data

-- path, the counter became an optional action type. In normal

-- implementation, either a data path has counters or it does not, as

-- opposed to being configurable. The management entity may choose to

-- read the counter or not. Hence it is recommended for implementation

-- that have counters to always configure the count action as the first

-- of multiple actions.

--

diffServCountActNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServCountActId, or a zero to indicate that none exist."

::= { diffServAction 4 }

diffServCountActTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServCountActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains counters for all the traffic passing through an action element."

::= { diffServAction 5 }

diffServCountActEntry OBJECT-TYPE

SYNTAX DiffServCountActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the count action table describes a single set of traffic counters."

INDEX { diffServCountActId }

::= { diffServCountActTable 1 }

DiffServCountActEntry ::= SEQUENCE {

diffServCountActId IndexInteger,

diffServCountActOctets Counter64,

diffServCountActPkts Counter64,

diffServCountActStorage StorageType,

diffServCountActStatus RowStatus

}

diffServCountActId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Count Action entries. Managers obtain new values for row creation in this table by reading

diffServCountActNextFree."

::= { diffServCountActEntry 1 }

diffServCountActOctets OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets at the Action data path element.



Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServCountActEntry 2 }

diffServCountActPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The number of packets at the Action data path element.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServCountActEntry 3 }

diffServCountActStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServCountActEntry 4 }

diffServCountActStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing

to it results in destruction being delayed until the row is no longer used."

::= { diffServCountActEntry 5 }

--

-- Algorithmic Drop Table

--

diffServAlgDrop OBJECT IDENTIFIER ::= { diffServMIBObjects 6 }

diffServAlgDropNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServAlgDropId, or a zero to indicate that none exist."

::= { diffServAlgDrop 1 }

diffServAlgDropTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServAlgDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The algorithmic drop table contains entries describing an element that drops packets according to some algorithm."

::= { diffServAlgDrop 2 }

diffServAlgDropEntry OBJECT-TYPE

SYNTAX DiffServAlgDropEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"An entry describes a process that drops packets according to some algorithm. Further details of the algorithm type are to be found in diffServAlgDropType and with more detail parameter entry pointed to by diffServAlgDropSpecific when necessary."

INDEX { diffServAlgDropId }

::= { diffServAlgDropTable 1 }

DiffServAlgDropEntry ::= SEQUENCE {

diffServAlgDropId IndexInteger,

diffServAlgDropType INTEGER,

diffServAlgDropNext RowPointer,

diffServAlgDropQMeasure RowPointer,

diffServAlgDropQThreshold Unsigned32,

diffServAlgDropSpecific RowPointer,

diffServAlgDropOctets Counter64,

diffServAlgDropPkts Counter64,

diffServAlgRandomDropOctets Counter64,

```
diffServAlgRandomDropPkts Counter64,  
diffServAlgDropStorage StorageType,  
diffServAlgDropStatus  
RowStatus  
}
```

diffServAlgDropId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Algorithmic Dropper entries.

Managers obtain new values for row creation in this table by reading diffServAlgDropNextFree."

::= { diffServAlgDropEntry 1 }

diffServAlgDropType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

tailDrop(2),

headDrop(3),

randomDrop(4),

alwaysDrop(5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of algorithm used by this dropper. The value other(1) requires further specification in some other MIB module.

In the tailDrop(2) algorithm, diffServAlgDropQThreshold represents the maximum depth of the queue, pointed to by diffServAlgDropQMeasure, beyond which all newly arriving packets

will be dropped.

In the headDrop(3) algorithm, if a packet arrives when the current depth of the queue, pointed to by diffServAlgDropQMeasure, is at diffServAlgDropQThreshold, packets currently at the head of the queue are dropped to make room for the new packet to be enqueued at the tail of the queue.

In the randomDrop(4) algorithm, on packet arrival, an Active Queue Management algorithm is executed which may randomly drop a packet. This algorithm may be proprietary, and it may drop either the arriving packet or another packet in the queue.

diffServAlgDropSpecific points to a diffServRandomDropEntry that describes the algorithm. For this algorithm,

diffServAlgDropQThreshold is understood to be the absolute maximum size of the queue and additional parameters are described in diffServRandomDropTable.

The alwaysDrop(5) algorithm is as its name specifies; always drop. In

this case, the other configuration values in this Entry are not meaningful; There is no useful 'next' processing step, there is no queue, and parameters describing the queue are not useful. Therefore, diffServAlgDropNext, diffServAlgDropMeasure, and diffServAlgDropSpecific are all zeroDotZero."  
::= { diffServAlgDropEntry 2 }

#### diffServAlgDropNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

When diffServAlgDropType is alwaysDrop(5), this object is ignored.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 3 }

#### diffServAlgDropQMeasure OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Points to an entry in the diffServQTable to indicate the queue that a drop algorithm is to monitor when deciding whether to drop a packet. If the row pointed to does not exist, the algorithmic dropper element is considered inactive.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes

inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 4 }

diffServAlgDropQThreshold OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A threshold on the depth in bytes of the queue being measured at which a trigger is generated to the dropping algorithm, unless diffServAlgDropType is alwaysDrop(5) where this object is ignored.

For the tailDrop(2) or headDrop(3) algorithms, this represents the depth of the queue, pointed to by diffServAlgDropQMeasure, at which the drop action will take place. Other algorithms will need to define their own semantics for this threshold."

::= { diffServAlgDropEntry 5 }

diffServAlgDropSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to a table entry that provides further detail regarding a drop algorithm.

Entries with diffServAlgDropType equal to other(1) may have this point to a table defined in another MIB module.

Entries with diffServAlgDropType equal to randomDrop(4) must have this point to an entry in diffServRandomDropTable.

For all other algorithms specified in this MIB, this should take the value zeroDotZero.

The diffServAlgDropType is authoritative for the type of the drop algorithm and the specific parameters for the drop algorithm needs to be evaluated based on the diffServAlgDropType.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
::= { diffServAlgDropEntry 6 }
```

diffServAlgDropOctets OBJECT-TYPE

SYNTAX

Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

```
::= { diffServAlgDropEntry 7 }
```

diffServAlgDropPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

```
::= { diffServAlgDropEntry 8 }
```

diffServAlgRandomDropOctets OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of octets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 9 }

#### diffServAlgRandomDropPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of packets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 10 }

#### diffServAlgDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServAlgDropEntry 11 }

#### diffServAlgDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to

'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."  
 ::= { diffServAlgDropEntry 12 }

--

-- Random Drop Table

--

diffServRandomDropNextFree OBJECT-TYPE

SYNTAX

IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServRandomDropId, or a zero to indicate that none exist."

::= { diffServAlgDrop 3 }

diffServRandomDropTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServRandomDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The random drop table contains entries describing a process that drops packets randomly. Entries in this table are pointed to by diffServAlgDropSpecific."

::= { diffServAlgDrop 4 }

diffServRandomDropEntry OBJECT-TYPE

SYNTAX DiffServRandomDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry describes a process that drops packets according to a random algorithm."

INDEX { diffServRandomDropId }

::= { diffServRandomDropTable 1 }

DiffServRandomDropEntry ::= SEQUENCE {

diffServRandomDropId

IndexInteger,

diffServRandomDropMinThreshBytes Unsigned32,

diffServRandomDropMinThreshPkts Unsigned32,

diffServRandomDropMaxThreshBytes Unsigned32,



```
diffServRandomDropMaxThreshPkts Unsigned32,  
diffServRandomDropProbMax Unsigned32,  
diffServRandomDropWeight Unsigned32,  
diffServRandomDropSamplingRate Unsigned32,  
diffServRandomDropStorage StorageType,  
diffServRandomDropStatus RowStatus  
}
```

diffServRandomDropId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Random Drop entries. Managers obtain new values for row creation in this table by reading diffServRandomDropNextFree."

::= { diffServRandomDropEntry 1 }

diffServRandomDropMinThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth in bytes, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshPkts."

::= { diffServRandomDropEntry 2 }

diffServRandomDropMinThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth in packets, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshBytes."

::= { diffServRandomDropEntry 3 }

diffServRandomDropMaxThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshPkts."

::= { diffServRandomDropEntry 4 }

diffServRandomDropMaxThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshBytes."

::= { diffServRandomDropEntry 5 }

diffServRandomDropProbMax

OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The worst case random drop probability, expressed in drops per thousand packets.

For example, if in the worst case every arriving packet may be dropped (100%) for a period, this has the value 1000.

Alternatively, if in the worst case only one percent (1%) of traffic may be dropped, it has the value 10."

::= { diffServRandomDropEntry 6 }

diffServRandomDropWeight OBJECT-TYPE

SYNTAX Unsigned32 (0..65536)

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The weighting of past history in affecting the Exponentially Weighted Moving Average function that calculates the current average queue depth. The equation uses  $\text{diffServRandomDropWeight}/65536$  as the coefficient for the new sample in the equation, and  $(65536 - \text{diffServRandomDropWeight})/65536$  as the coefficient of the old value.

Implementations may limit the values of `diffServRandomDropWeight` to a subset of the possible range of values, such as powers of two. Doing this would facilitate implementation of the Exponentially Weighted Moving Average using shift instructions or registers."

::= { diffServRandomDropEntry 7 }

## diffServRandomDropSamplingRate OBJECT-TYPE

SYNTAX Unsigned32 (0..1000000)

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The number of times per second the queue is sampled for queue average calculation. A value of zero is used to mean that the queue is sampled approximately each time a packet is enqueued (or dequeued)."

::= { diffServRandomDropEntry 8 }

## diffServRandomDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServRandomDropEntry 9 }

## diffServRandomDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServRandomDropEntry 10 }

--

-- Queue Table

--

diffServQueue OBJECT IDENTIFIER ::= { diffServMIBObjects 7 }

--

-- An entry of diffServQTable represents a FIFO queue Differentiated  
-- Services Functional Data Path element as described in the Informal  
-- Differentiated Services Model section 7.1.1. Note that the  
-- specification of scheduling  
parameters for a queue as part of the  
-- input to a scheduler functional data path element as described in  
-- the Informal Differentiated Services Model section 7.1.2. This  
-- allows building of hierarchical queuing/scheduling. A queue  
-- therefore has these attributes:

--

- 1. Which scheduler will service this queue, diffServQNext.
- 2. How the scheduler will service this queue, with respect  
-- to all the other queues the same scheduler needs to service,  
-- diffServQMinRate.

--

-- Note that upstream Differentiated Services Functional Data Path  
-- elements may point to a shared diffServQTable entry as described  
-- in the Informal Differentiated Services Model section 7.1.1.

--

diffServQNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServQId, or a zero  
to indicate that none exist."

::= { diffServQueue 1 }

diffServQTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServQEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Queue Table enumerates the individual queues. Note that the MIB models queuing systems as composed of individual queues, one per class of traffic, even though they may in fact be structured as classes of traffic scheduled using a common calendar queue, or in other ways."

::= { diffServQueue 2 }

diffServQEntry OBJECT-TYPE

SYNTAX DiffServQEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Queue Table describes a single queue or class of traffic."

INDEX { diffServQId }

::= { diffServQTable 1 }

DiffServQEntry ::= SEQUENCE {

diffServQId IndexInteger,

diffServQNext RowPointer,

diffServQMinRate RowPointer,

diffServQMaxRate RowPointer,

diffServQStorage

StorageType,

diffServQStatus RowStatus

}

diffServQId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Queue entries. Managers obtain new values for row creation in this table by reading diffServQNextFree."

::= { diffServQEntry 1 }

diffServQNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This selects the next Differentiated Services Scheduler. The RowPointer must point to a diffServSchedulerEntry.

A value of zeroDotZero in this attribute indicates an incomplete diffServQEntry instance. In such a case, the entry has no operational effect, since it has no parameters to give it meaning.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 2 }

## diffServQMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This RowPointer indicates the diffServMinRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the minimum rate and priority is unspecified.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 3 }

## diffServQMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"This RowPointer indicates the diffServMaxRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the maximum rate is the line speed of the interface.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 4 }

diffServQStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServQEntry 5 }

diffServQStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServQEntry 6 }

--

-- Scheduler Table

--

diffServScheduler OBJECT IDENTIFIER ::= { diffServMIBObjects 8 }

--

-- A Scheduler Entry represents a packet scheduler, such as a priority scheduler or a WFQ scheduler. It provides flexibility for multiple scheduling algorithms, each servicing multiple queues, to be used on the same logical/physical interface.

--

-- Note that upstream queues or schedulers specify several of the scheduler's parameters. These must be properly specified if the scheduler is to behave as expected.

--

-- The diffServSchedulerMaxRate attribute specifies the parameters when  
-- a scheduler's output is sent to another scheduler. This is used in  
-- building  
hierarchical queues or schedulers.

--  
-- More discussion of the scheduler functional data path element is in  
-- the Informal Differentiated Services Model section 7.1.2.  
--

diffServSchedulerNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServSchedulerId, or  
a zero to indicate that none exist."

::= { diffServScheduler 1 }

diffServSchedulerTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Scheduler Table enumerates packet schedulers. Multiple  
scheduling algorithms can be used on a given data path, with each  
algorithm described by one diffServSchedulerEntry."

::= { diffServScheduler 2 }

diffServSchedulerEntry OBJECT-TYPE

SYNTAX DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Scheduler Table describing a single instance of  
a scheduling algorithm."

INDEX { diffServSchedulerId }

::= { diffServSchedulerTable 1 }

DiffServSchedulerEntry ::= SEQUENCE {

diffServSchedulerId IndexInteger,

diffServSchedulerNext RowPointer,

diffServSchedulerMethod AutonomousType,

diffServSchedulerMinRate RowPointer,

diffServSchedulerMaxRate RowPointer,

diffServSchedulerStorage StorageType,



```
diffServSchedulerStatus      RowStatus
}
```

#### diffServSchedulerId OBJECT-TYPE

```
SYNTAX      IndexInteger
MAX-ACCESS  not-accessible
STATUS      current
```

#### DESCRIPTION

"An index that enumerates the Scheduler entries. Managers obtain new values for row creation in this table by reading diffServSchedulerNextFree."

```
::= { diffServSchedulerEntry 1 }
```

#### diffServSchedulerNext OBJECT-TYPE

```
SYNTAX      RowPointer
MAX-ACCESS  read-create
STATUS      current
```

#### DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This normally is null (zeroDotZero), or points to a diffServSchedulerEntry or a diffServQEntry.

However, this RowPointer may also point to an instance of:

```
diffServClfrEntry,
diffServMeterEntry,
diffServActionEntry,
diffServAlgDropEntry.
```

It would point another diffServSchedulerEntry when implementing multiple scheduler methods for the same data path, such as having one set of queues scheduled by WRR and that group participating in a priority scheduling system in which other queues compete with it in that way. It might also point to a second scheduler in a hierarchical scheduling system.

If the row pointed to is zeroDotZero, no further Differentiated Services

treatment is performed on traffic of this data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }  
 ::= { diffServSchedulerEntry 2 }

diffServSchedulerMethod OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The scheduling algorithm used by this Scheduler. zeroDotZero indicates that this is unknown. Standard values for generic algorithms: diffServSchedulerPriority, diffServSchedulerWRR, and diffServSchedulerWFQ are specified in this MIB; additional values

may be further specified in other MIBs."

::= { diffServSchedulerEntry 3 }

diffServSchedulerMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the entry in diffServMinRateTable which indicates the priority or minimum output rate from this scheduler. This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no minimum rate or priority is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }  
 ::= { diffServSchedulerEntry 4 }

diffServSchedulerMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This RowPointer indicates the entry in diffServMaxRateTable which indicates the maximum output rate from this scheduler.

When

more than one maximum rate applies (eg, when a multi-rate shaper is in view), it points to the first of those rate entries. This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no maximum rate is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL { zeroDotZero }  
::= { diffServSchedulerEntry 5 }
```

diffServSchedulerStorage OBJECT-TYPE

```
SYNTAX StorageType  
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

```
DEFVAL { nonVolatile }  
::=  
{ diffServSchedulerEntry 6 }
```

diffServSchedulerStatus OBJECT-TYPE

```
SYNTAX RowStatus  
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

```
::= { diffServSchedulerEntry 7 }
```

```
--
```

```
-- OIDs for diffServTBParamType definitions.
```

```
--
```

```
diffServSchedulers OBJECT IDENTIFIER ::= { diffServMIBAdmin 2 }
```

diffServSchedulerPriority OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Priority scheduling method. This is defined as an algorithm in which the presence of data in a queue or set of queues absolutely precludes dequeue from another queue or set of queues of lower priority.

Note

that attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 1 }

diffServSchedulerWRR OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted Round Robin scheduling method, defined as any algorithm in which a set of queues are visited in a fixed order, and varying amounts of traffic are removed from each queue in turn to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 2 }

diffServSchedulerWFQ OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted Fair Queuing scheduling method, defined as any algorithm in which a set of queues are conceptually visited in some order, to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 3 }

--

-- Minimum Rate Parameters Table

--

-- The parameters used by a scheduler for its inputs or outputs are  
-- maintained separately from the Queue or Scheduler table entries for  
-- reusability reasons and so that they may be used by both queues and  
-- schedulers. This follows the approach for separation of data path  
-- elements from parameterization that is used throughout this MIB.

-- Use of these Minimum Rate Parameter Table entries by Queues and Schedulers allows the modeling of hierarchical scheduling systems.

--

-- Specifically, a Scheduler has one or more inputs and one output.

-- Any queue feeding a scheduler, or any scheduler which feeds a second scheduler,

might specify a minimum transfer rate by pointing to an

-- Minimum Rate Parameter Table entry.

--

-- The diffServMinRatePriority/Abs/Rel attributes are used as parameters to the work-conserving portion of a scheduler:

-- "work-conserving" implies that the scheduler can continue to emit data as long as there is data available at its input(s). This has the effect of guaranteeing a certain priority relative to other scheduler inputs and/or a certain minimum proportion of the available output bandwidth. Properly configured, this means a certain minimum rate, which may be exceeded should traffic be available should there be spare bandwidth after all other classes have had opportunities to consume their own minimum rates.

--

#### diffServMinRateNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object contains an unused value for diffServMinRateId, or a zero to indicate that none exist."

::= { diffServScheduler 3 }

#### diffServMinRateTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The Minimum Rate Parameters Table enumerates individual sets of scheduling parameter that can be used/reused by Queues and Schedulers."

::= { diffServScheduler 4 }

#### diffServMinRateEntry OBJECT-TYPE

SYNTAX DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An entry in the Minimum Rate Parameters Table describes a single set of scheduling parameters for use by one or more queues or schedulers."

INDEX { diffServMinRateId }

::= { diffServMinRateTable 1 }

```
DiffServMinRateEntry ::= SEQUENCE {
    diffServMinRateId      IndexInteger,
    diffServMinRatePriority Unsigned32,
    diffServMinRateAbsolute Unsigned32,
    diffServMinRateRelative Unsigned32,
    diffServMinRateStorage StorageType,
    diffServMinRateStatus  RowStatus
}
```

diffServMinRateId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Scheduler Parameter entries.

Managers obtain new values for row creation in this table by reading diffServMinRateNextFree."

::= { diffServMinRateEntry 1 }

diffServMinRatePriority OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The priority of this input to the associated scheduler, relative

to the scheduler's other inputs. A queue or scheduler with a larger numeric value will be served before another with a smaller numeric value."

::= { diffServMinRateEntry 2 }

diffServMinRateAbsolute OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS

read-create

STATUS current

DESCRIPTION

"The minimum absolute rate, in kilobits/sec, that a downstream

scheduler element should allocate to this queue. If the value is zero, then there is effectively no minimum rate guarantee. If the value is non-zero, the scheduler will assure the servicing of this queue to at least this rate.

Note that this attribute value and that of `diffServMinRateRelative` are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

$$\text{diffServMinRateRelative} = (\text{diffServMinRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$$

#### REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"  
::= { diffServMinRateEntry 3 }

#### diffServMinRateRelative OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The minimum rate that a downstream scheduler element should allocate to this queue, relative to the maximum rate of the interface as reported by ifSpeed or ifHighSpeed, in units of 1/1000 of 1. If the value is zero, then there is effectively no minimum rate guarantee. If the value is non-zero, the scheduler will assure the servicing of this queue to at least this rate.

Note that this attribute value and that of `diffServMinRateAbsolute` are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

$$\text{diffServMinRateRelative} = (\text{diffServMinRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$$

#### REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB,

RFC 2863"

::= { diffServMinRateEntry 4 }

diffServMinRateStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMinRateEntry 5 }

diffServMinRateStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMinRateEntry 6 }

--

-- Maximum Rate Parameter Table

--

-- The parameters used by a scheduler for its inputs or outputs are  
-- maintained

separately from the Queue or Scheduler table entries for

-- reusability reasons and so that they may be used by both queues and

-- schedulers. This follows the approach for separation of data path

-- elements from parameterization that is used throughout this MIB.

-- Use of these Maximum Rate Parameter Table entries by Queues and

-- Schedulers allows the modeling of hierarchical scheduling systems.

--

-- Specifically, a Scheduler has one or more inputs and one output.

-- Any queue feeding a scheduler, or any scheduler which feeds a second

-- scheduler, might specify a maximum transfer rate by pointing to a

-- Maximum Rate Parameter Table entry. Multi-rate shapers, such as a

-- Dual Leaky Bucket algorithm, specify their rates using multiple

-- Maximum Rate Parameter Entries with the same diffServMaxRateId but

-- different diffServMaxRateLevels.



--  
-- The diffServMaxRateLevel/Abs/Rel attributes are used as  
-- parameters to the non-work-conserving portion of a scheduler:  
-- non-work-conserving  
implies that the scheduler may sometimes not  
-- emit a packet, even if there is data available at its input(s).  
-- This has the effect of limiting the servicing of the queue/scheduler  
-- input or output, in effect performing shaping of the packet stream  
-- passing through the queue/scheduler, as described in the Informal  
-- Differentiated Services Model section 7.2.  
--

diffServMaxRateNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMaxRateId, or a zero to indicate that none exist."

::= { diffServScheduler 5 }

diffServMaxRateTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMaxRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Maximum Rate Parameter Table enumerates individual sets of scheduling parameter that can be used/reused by Queues and Schedulers."

::=

{ diffServScheduler 6 }

diffServMaxRateEntry OBJECT-TYPE

SYNTAX DiffServMaxRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Maximum Rate Parameter Table describes a single set of scheduling parameters for use by one or more queues or schedulers."

INDEX { diffServMaxRateId, diffServMaxRateLevel }

::= { diffServMaxRateTable 1 }

DiffServMaxRateEntry ::= SEQUENCE {

diffServMaxRateId IndexInteger,

diffServMaxRateLevel Unsigned32,

diffServMaxRateAbsolute Unsigned32,

```
diffServMaxRateRelative    Unsigned32,
diffServMaxRateThreshold   BurstSize,
diffServMaxRateStorage     StorageType,
diffServMaxRateStatus     RowStatus
}
```

diffServMaxRateId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Maximum Rate Parameter entries.

Managers obtain new values for row creation in this table by reading diffServMaxRateNextFree."

::= { diffServMaxRateEntry 1 }

diffServMaxRateLevel OBJECT-TYPE

SYNTAX Unsigned32 (1..32)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that indicates which level of a multi-rate shaper is being given its parameters. A multi-rate shaper has some number of rate levels. Frame Relay's dual rate specification refers to a 'committed' and an 'excess' rate; ATM's dual rate specification refers to a 'mean' and a 'peak' rate. This table is generalized to support an arbitrary number of rates. The committed or mean rate is level 1, the peak rate (if any) is the highest level rate configured, and if there are other rates they are distributed in monotonically increasing order between them."

::= { diffServMaxRateEntry 2 }

diffServMaxRateAbsolute OBJECT-TYPE

SYNTAX Unsigned32

(1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum rate in kilobits/sec that a downstream scheduler element should allocate to this queue. If the value is zero, then there is effectively no maximum rate limit and that the scheduler should attempt to be work conserving for this queue. If the value is non-zero, the scheduler will limit the servicing of this queue to, at most, this rate in a non-work-conserving manner.

Note that this attribute value and that of `diffServMaxRateRelative` are coupled: changes to one will affect the value of the other. They are linked by the following

equation, in that setting one will change the other:

$$\text{diffServMaxRateRelative} = (\text{diffServMaxRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$$

#### REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"

::= { diffServMaxRateEntry 3 }

#### diffServMaxRateRelative OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The maximum rate that a downstream scheduler element should allocate to this queue, relative to the maximum rate of the interface as reported by ifSpeed or ifHighSpeed, in units of 1/1000 of 1. If the value is zero, then there is effectively no maximum rate limit and the scheduler should attempt to be work conserving for this queue. If the value is non-zero, the scheduler will limit the servicing of this queue to, at most, this rate in a non-work-conserving manner.

Note that this attribute value and that of `diffServMaxRateAbsolute` are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

$$\text{diffServMaxRateRelative} = (\text{diffServMaxRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$$

#### REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"

::= { diffServMaxRateEntry 4 }

diffServMaxRateThreshold OBJECT-TYPE

SYNTAX BurstSize

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of bytes of queue depth at which the rate of a

multi-rate scheduler will increase to the next output rate. In the last conceptual row for such a shaper, this threshold is ignored and by convention is zero."

REFERENCE

"Adaptive rate Shaper, RFC 2963"

::= { diffServMaxRateEntry 5 }

diffServMaxRateStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMaxRateEntry 6 }

diffServMaxRateStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMaxRateEntry 7 }

--

-- MIB Compliance statements.

--

diffServMIBCompliances OBJECT IDENTIFIER ::=

{ diffServMIBConformance 1 }

```
diffServMIBGroups OBJECT IDENTIFIER ::=
    { diffServMIBConformance 2 }
```

```
diffServMIBFullCompliance MODULE-COMPLIANCE
    STATUS current
```

DESCRIPTION

"When this MIB is implemented with support for read-create, then such an implementation can claim full compliance. Such devices can then be both monitored and configured with this MIB."

```
MODULE IF-MIB -- The interfaces MIB, RFC2863
MANDATORY-GROUPS {
```

```
    ifCounterDiscontinuityGroup
}
```

```
MODULE -- This Module
```

```
MANDATORY-GROUPS {
    diffServMIBDataPathGroup, diffServMIBClfrGroup,
    diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup, diffServMIBAlgDropGroup,
    diffServMIBQGroup, diffServMIBSchedulerGroup,
    diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
    diffServMIBCounterGroup
}
```

```
GROUP diffServMIBMeterGroup
```

DESCRIPTION

"This group is mandatory for devices that implement metering functions."

```
GROUP diffServMIBTBParamGroup
```

DESCRIPTION

"This group is mandatory for devices that implement token-bucket metering functions."

```
GROUP diffServMIBDscpMarkActGroup
```

DESCRIPTION

"This group is mandatory for devices that implement DSCP-Marking functions."

```
GROUP diffServMIBRandomDropGroup
```

DESCRIPTION

"This group is mandatory for devices that implement Random Drop functions."

OBJECT diffServDataPathStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }  
DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServClfrStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }  
DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServClfrElementStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType  
SYNTAX InetAddressType  
{ unknown(0), ipv4(1), ipv6(2) }  
DESCRIPTION  
"An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr  
SYNTAX InetAddress (SIZE(0|4|16))  
DESCRIPTION  
"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServAlgDropStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }  
DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServRandomDropStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }  
DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServQStatus

```
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
    "Support for createAndWait and notInService is not required."
```

```
OBJECT diffServSchedulerStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
    "Support for createAndWait and notInService is not required."
```

```
OBJECT diffServMinRateStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
    "Support for createAndWait and notInService is not required."
```

```
OBJECT diffServMaxRateStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
```

```
DESCRIPTION
    "Support for createAndWait and notInService is not required."
```

```
::= { diffServMIBCompliances 1 }
```

```
--
-- Read-Only Compliance
--
```

```
diffServMIBReadOnlyCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "When this MIB is implemented without support for read-create
        (i.e. in read-only mode), then such an implementation can claim
        read-only compliance. Such a device can then be monitored but can
        not be configured
with this MIB."
```

```
MODULE IF-MIB -- The interfaces MIB, RFC2863
MANDATORY-GROUPS {
    ifCounterDiscontinuityGroup
}
```

```
MODULE -- This Module
MANDATORY-GROUPS {
```

```
diffServMIBDataPathGroup, diffServMIBClfrGroup,  
diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,  
diffServMIBActionGroup, diffServMIBAlgDropGroup,  
diffServMIBQGroup, diffServMIBSchedulerGroup,  
diffServMIBMaxRateGroup, diffServMIBMinRateGroup,  
diffServMIBCounterGroup  
}
```

GROUP diffServMIBMeterGroup

DESCRIPTION

"This group is mandatory for devices that implement metering functions."

GROUP diffServMIBTBParamGroup

DESCRIPTION

"This group is mandatory for devices that implement token-bucket metering functions."

GROUP diffServMIBDscpMarkActGroup

DESCRIPTION

"This group is mandatory for devices that implement DSCP-Marking functions."

GROUP diffServMIBRandomDropGroup

DESCRIPTION

"This group is mandatory for devices that implement Random Drop functions."

OBJECT diffServDataPathStart

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServDataPathStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServDataPathStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."



OBJECT diffServClfrNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object not needed when diffServClfrTable is implemented read-only"

OBJECT diffServClfrStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServClfrStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrElementNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object not needed when diffServClfrelementTable is implemented read-only"

OBJECT diffServClfrElementPrecedence  
MIN-ACCESS read-only  
DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementNext  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServClfrElementSpecific  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServClfrElementStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServClfrElementStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMultiFieldClfrNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMultiFieldClfrTable is implemented in read-only mode."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { unknown(0), ipv4(1), ipv6(2) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required. An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr

SYNTAX InetAddress (SIZE(0|4|16))

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrDstPrefixLength

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrSrcAddr

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrSrcPrefixLength

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrDscp

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrFlowId  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrProtocol  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMin  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMax  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMin  
MIN-ACCESS  
read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMax  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrStorage  
MIN-ACCESS read-only

DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, createAndWait and notInService support is not required."

OBJECT diffServMeterNextFree  
MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMultiFieldClfrTable is implemented in read-only mode."

OBJECT diffServMeterSucceedNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterFailNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServTBParamNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServTBParamTable is implemented in read-only mode."

OBJECT diffServTBParamType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamBurstSize  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT  
diffServTBParamInterval  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServTBParamStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServTBParamStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that  
needs to be supported."

OBJECT diffServActionNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object is not needed when diffServActionTable is implemented in  
read-only mode."

OBJECT diffServActionInterface  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServActionNext  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServActionSpecific  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access

is not required."

OBJECT diffServActionStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServActionStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServCountActNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServCountActTable is implemented in read-only mode."

OBJECT diffServCountActStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServCountActStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServAlgDropNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServAlgDropTable is implemented in read-only mode."

OBJECT diffServAlgDropType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropQMeasure

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropQThreshold

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required,  
and active is the only status that  
needs to be supported."

OBJECT diffServRandomDropNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServRandomDropTable is implemented  
in read-only mode."

OBJECT diffServRandomDropMinThreshBytes

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMinThreshPkts

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMaxThreshBytes

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMaxThreshPkts

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropProbMax

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropWeight

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropSamplingRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServQNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServQTable is implemented in read-only mode."

OBJECT diffServQNext

MIN-ACCESS read-only

DESCRIPTION



"Write access is not required."

OBJECT diffServQMinRate  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQMaxRate  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQStorage  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServSchedulerNextFree  
MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServSchedulerTable is implemented in read-only mode."

OBJECT diffServSchedulerNext  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMethod  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMinRate  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMaxRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMinRateNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMinRateTable is implemented in read-only mode."

OBJECT diffServMinRatePriority

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMinRateAbsolute

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMinRateRelative

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMinRateStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMinRateStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMaxRateNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMaxrateTable is implemented in read-only mode."

OBJECT diffServMaxRateAbsolute

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMaxRateRelative

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMaxRateThreshold

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMaxRateStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMaxRateStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

::= { diffServMIBCompliances 2 }

diffServMIBDataPathGroup OBJECT-GROUP

OBJECTS {

diffServDataPathStart, diffServDataPathStorage,  
diffServDataPathStatus

}

STATUS current

DESCRIPTION

"The Data Path Group defines the MIB Objects that describe a functional data path."

::= { diffServMIBGroups 1 }

diffServMIBClfrGroup OBJECT-GROUP

OBJECTS {

diffServClfrNextFree, diffServClfrStorage,  
diffServClfrStatus

}

STATUS current

DESCRIPTION

"The Classifier Group defines the MIB Objects that describe the

list the starts of individual classifiers."

::= { diffServMIBGroups 2 }

diffServMIBClfrElementGroup

OBJECT-GROUP

OBJECTS {

diffServClfrElementNextFree,  
diffServClfrElementPrecedence, diffServClfrElementNext,  
diffServClfrElementSpecific, diffServClfrElementStorage,  
diffServClfrElementStatus

}

STATUS current

DESCRIPTION

"The Classifier Element Group defines the MIB Objects that describe the classifier elements that make up a generic classifier."

::= { diffServMIBGroups 3 }

diffServMIBMultiFieldClfrGroup OBJECT-GROUP

OBJECTS {

diffServMultiFieldClfrNextFree,  
diffServMultiFieldClfrAddrType,  
diffServMultiFieldClfrDstAddr,  
diffServMultiFieldClfrDstPrefixLength,  
diffServMultiFieldClfrFlowId,  
diffServMultiFieldClfrSrcAddr,  
diffServMultiFieldClfrSrcPrefixLength,  
diffServMultiFieldClfrDscp,  
diffServMultiFieldClfrProtocol,  
diffServMultiFieldClfrDstL4PortMin,  
diffServMultiFieldClfrDstL4PortMax,  
diffServMultiFieldClfrSrcL4PortMin,

```

        diffServMultiFieldClfrSrcL4PortMax,
        diffServMultiFieldClfrStorage,
        diffServMultiFieldClfrStatus
    }
    STATUS    current
    DESCRIPTION
        "The Multi-field Classifier Group defines the MIB Objects that
        describe a classifier element for matching on various fields of
        an IP and upper-layer protocol header."
    ::= { diffServMIBGroups 4 }

```

diffServMIBMeterGroup OBJECT-GROUP

```

    OBJECTS {
        diffServMeterNextFree, diffServMeterSucceedNext,
        diffServMeterFailNext, diffServMeterSpecific,
        diffServMeterStorage, diffServMeterStatus
    }

```

STATUS current

DESCRIPTION

"The Meter Group defines the objects used in describing a generic meter element."

```

::= { diffServMIBGroups 5 }

```

diffServMIBTBParamGroup OBJECT-GROUP

```

    OBJECTS {
        diffServTBParamNextFree,
    diffServTBParamType,
        diffServTBParamRate, diffServTBParamBurstSize,
        diffServTBParamInterval, diffServTBParamStorage,
        diffServTBParamStatus
    }

```

STATUS current

DESCRIPTION

"The Token-Bucket Meter Group defines the objects used in describing a token bucket meter element."

```

::= { diffServMIBGroups 6 }

```

diffServMIBActionGroup OBJECT-GROUP

```

    OBJECTS {
        diffServActionNextFree, diffServActionNext,
        diffServActionSpecific, diffServActionStorage,
        diffServActionInterface, diffServActionStatus
    }

```

STATUS current

DESCRIPTION

"The Action Group defines the objects used in describing a generic action element."

::= { diffServMIBGroups 7 }

diffServMIBDscpMarkActGroup OBJECT-GROUP

OBJECTS {

diffServDscpMarkActDscp

}

STATUS current

DESCRIPTION

"The DSCP Mark Action Group defines the objects used in describing a DSCP Marking Action element."

::= { diffServMIBGroups 8 }

diffServMIBCounterGroup OBJECT-GROUP

OBJECTS {

diffServCountActOctets, diffServCountActPkts,  
diffServAlgDropOctets, diffServAlgDropPkts,  
diffServAlgRandomDropOctets, diffServAlgRandomDropPkts,  
diffServCountActStorage, diffServCountActStatus,  
diffServCountActNextFree

}

STATUS current

DESCRIPTION

"A collection of objects providing information specific to packet-oriented network interfaces."

::= { diffServMIBGroups 9 }

diffServMIBAlgDropGroup OBJECT-GROUP

OBJECTS {

diffServAlgDropNextFree, diffServAlgDropType,  
diffServAlgDropNext, diffServAlgDropQMeasure,  
diffServAlgDropQThreshold, diffServAlgDropSpecific,  
diffServAlgDropStorage, diffServAlgDropStatus

}

STATUS current

DESCRIPTION

"The Algorithmic Drop Group contains the objects that describe algorithmic dropper operation and configuration."

::= { diffServMIBGroups 10 }

diffServMIBRandomDropGroup OBJECT-GROUP

OBJECTS {

diffServRandomDropNextFree,

```

diffServRandomDropMinThreshBytes,
diffServRandomDropMinThreshPkts,
diffServRandomDropMaxThreshBytes,
diffServRandomDropMaxThreshPkts,
diffServRandomDropProbMax,
diffServRandomDropWeight,
diffServRandomDropSamplingRate,
diffServRandomDropStorage,
diffServRandomDropStatus
}
STATUS    current
DESCRIPTION
"The Random Drop Group augments the Algorithmic Drop Group for
random dropper operation and configuration."
::= { diffServMIBGroups 11 }

```

#### diffServMIBQGroup OBJECT-GROUP

```

OBJECTS {
diffServQNextFree, diffServQNext, diffServQMinRate,
diffServQMaxRate, diffServQStorage, diffServQStatus
}
STATUS    current
DESCRIPTION
"The Queue Group contains the objects that describe an
interface's queues."
::= { diffServMIBGroups 12 }

```

#### diffServMIBSchedulerGroup OBJECT-GROUP

```

OBJECTS {
diffServSchedulerNextFree, diffServSchedulerNext,
diffServSchedulerMethod, diffServSchedulerMinRate,
diffServSchedulerMaxRate, diffServSchedulerStorage,
diffServSchedulerStatus
}
STATUS    current
DESCRIPTION
"The Scheduler Group contains the objects that describe packet
schedulers on interfaces."
::= { diffServMIBGroups 13 }

```

#### diffServMIBMinRateGroup OBJECT-GROUP

```

OBJECTS {
diffServMinRateNextFree, diffServMinRatePriority,

```

```
        diffServMinRateAbsolute, diffServMinRateRelative,
        diffServMinRateStorage, diffServMinRateStatus
    }
STATUS    current
DESCRIPTION
    "The Minimum Rate Parameter Group contains the objects that

describe packet schedulers' minimum rate or priority guarantees."
 ::= { diffServMIBGroups 14 }
```

```
diffServMIBMaxRateGroup OBJECT-GROUP
OBJECTS {
    diffServMaxRateNextFree, diffServMaxRateAbsolute,
    diffServMaxRateRelative, diffServMaxRateThreshold,
    diffServMaxRateStorage, diffServMaxRateStatus
}
STATUS    current
DESCRIPTION
    "The Maximum Rate Parameter Group contains the objects that

describe packet schedulers' maximum rate guarantees."
 ::= { diffServMIBGroups 15 }
```

END

Found in path(s):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB

# 1.448 json 20090211

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16 2004/11/20 21:48:47 mbecke Exp \$

\* \$Revision: 404762 \$

\* \$Date: 2006-05-07 10:07:41 -0400 (Sun, 07 May 2006) \$

\*

\* =====

\*



```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpRecoverableException.java,v 1.15 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpRecoverableException.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParser.java,v 1.11 2004/11/06 19:15:42 mbecke Exp \$

\* \$Revision: 224451 \$

\* \$Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) \$

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jar/org/apache/commons/httpclient/util/DateParser.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java,v 1.11 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/StringRequestEntity.java,v 1.3 2004/07/03 14:27:03 olegk Exp \$  
\* \$Revision: 356822 \$  
\* \$Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/auth/DigestScheme.java,v 1.22 2004/12/30 11:01:27

ogluock Exp \$

\* \$Revision: 368699 \$

\* \$Date: 2006-01-13 07:24:45 -0500 (Fri, 13 Jan 2006) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47

2004/12/21 11:27:55 olegk Exp \$

\* \$Revision: 366716 \$

\* \$Date: 2006-01-07 08:04:58 -0500 (Sat, 07 Jan 2006) \$

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jar/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpec.java,v 1.11 2004/09/14 20:11:31  
olegk Exp \$  
\* \$Revision: 356822 \$  
\* \$Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/cookie/CookieSpec.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpVersion.java,v 1.6 2004/12/20 19:52:50 olegk  
Exp \$  
\* \$Revision: 155418 \$  
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jar/org/apache/commons/httpclient/HttpVersion.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java,v 1.6 2004/09/14
20:11:31 olegk Exp $
* $Revision: 179050 $
* $Date: 2005-05-30 08:22:06 -0400 (Mon, 30 May 2005) $
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jar/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ProtocolException.java,v 1.4 2004/05/13 04:03:25
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever
Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/Credentials.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22  
mbecke Exp \$

\* \$Revision: 345737 \$

\* \$Date: 2005-11-20 07:30:47 -0500 (Sun, 20 Nov 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp \$

\* \$Revision: 155418 \$

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\* \$Revision: 155418 \$

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jar/org/apache/commons/httpclient/HttpsURL.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthState.java,v 1.3 2004/11/02 19:39:16 olegk

Exp \$

\* \$Revision: 290260 \$

\* \$Date: 2005-09-19 16:37:48 -0400 (Mon, 19 Sep 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18  
23:51:35 jsdever Exp \$  
\* \$Revision: 326707 \$  
\* \$Date: 2005-10-19 16:51:46 -0400 (Wed, 19 Oct 2005) \$

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/UsernamePasswordCredentials.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

\*

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpClient.java

No license file was found, but licenses were detected in source scan.

/\*



```

* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HostParams.java,v 1.5 2004/10/06 17:32:04
olegk Exp $
* $Revision: 224451 $
* $Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) $
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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/HostParams.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/EncodingUtil.java,v 1.8 2004/05/13 04:01:22
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
 jar/org/apache/commons/httpclient/util/EncodingUtil.java

No license file was found, but licenses were detected in source scan.

/\*  
 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java,v 1.10  
 2004/05/13 04:01:22 mbecke Exp \$  
 \* \$Revision: 155418 \$  
 \* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
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Found in path(s):

```
*/opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* $HeadURL:
```

```
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/jav
a/org/apache/commons/httpclient/util/ParameterFormatter.java $
```

```
* $Revision: 178662 $
```

```
* $Date: 2005-05-26 14:21:14 -0400 (Thu, 26 May 2005) $
```

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*
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* =====
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*
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*/
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Found in path(s):

```
*/opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/util/ParameterFormatter.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodDirector.java,v 1.34 2005/01/14 19:40:39
olegk Exp $
* $Revision: 366870 $
* $Date: 2006-01-07 13:12:55 -0500 (Sat, 07 Jan 2006) $
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```

Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/HttpMethodDirector.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/BasicScheme.java,v 1.17 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/BasicScheme.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParams.java,v 1.9 2004/12/21
23:15:21 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*

```

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/DefaultHttpParams.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLM.java,v 1.11 2004/05/13 04:02:00 mbecke

Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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```

/**
 * Provides an implementation of the NTLM authentication protocol.
 * <p>
 * This class provides methods for generating authentication
 * challenge responses for the NTLM authentication protocol. The NTLM
 * protocol is a proprietary Microsoft protocol and as such no RFC
 * exists for it. This class is based upon the reverse engineering
 * efforts of a wide range of people.</p>
 *
 * <p>Please note that an implementation of JCE must be correctly installed and configured when
 * using NTLM support.</p>
 *
 * <p>This class should not be used externally to HttpClient as it's API is specifically
 * designed to work with HttpClient's use
 * case, in particular it's connection management.</p>
 *
 * @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>
 * @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 *
 * @version $Revision: 155418 $ $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 * @since 3.0
 */

```

Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/NTLM.java

```

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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15
20:32:21 olegk Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpConnectionParams.java

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/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/ExpectContinueMethod.java,v 1.13 2004/05/08 10:12:08 olegk Exp \$  
\* \$Revision: 155418 \$  
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No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java,v 1.6 2004/04/18 23:51:38 jsdever Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java  
No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp \$

```

* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/ProxyHost.java
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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/WireLogOutputStream.java,v 1.7 2004/06/24 21:39:52
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/WireLogOutputStream.java

```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke
Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/HeaderGroup.java  
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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartBase.java,v 1.5 2004/04/18  
23:51:37 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/methods/multipart/PartBase.java  
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```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18
23:51:36 jsdever Exp $
 * $Revision: 290260 $
 * $Date: 2005-09-19 16:37:48 -0400 (Mon, 19 Sep 2005) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java
No license file was found, but licenses were detected in source scan.

```

```

/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06
03:39:59 mbecke Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 *
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/MultipartPostMethod.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Cookie.java

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/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParseException.java,v 1.5 2004/11/06 19:15:42 mbecke Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-

jar/org/apache/commons/httpclient/util/DateParseException.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18
23:51:37 jsdever Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 *
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jar/org/apache/commons/httpclient/methods/DeleteMethod.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck
Exp $
 * $Revision: 358634 $
 * $Date: 2005-12-22 16:23:15 -0500 (Thu, 22 Dec 2005) $
 *
 * =====
```



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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/HttpURL.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java,v 1.4 2004/05/17 21:46:03 olegk Exp \$

\* \$Revision: 224452 \$

\* \$Date: 2005-07-23 06:33:39 -0400 (Sat, 23 Jul 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk  
Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00

mbecke Exp \$

\* \$Revision: 155418 \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/HttpStatus.java,v 1.18 2004/05/02 11:21:13 olegk Exp \$

\* \$Revision: 155418 \$

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 jar/org/apache/commons/httpclient/HttpStatus.java

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/\*  
 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6  
 2004/05/13 04:02:00 mbecke Exp \$  
 \* \$Revision: 155418 \$  
 \* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/auth/MalformedChallengeException.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpParser.java,v 1.13 2005/01/11 13:57:06 oglueck  
Exp \$  
\* \$Revision: 179411 \$  
\* \$Date: 2005-06-01 16:04:58 -0400 (Wed, 01 Jun 2005) \$  
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jar/org/apache/commons/httpclient/HttpParser.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java,v 1.39
2004/07/03 14:27:03 olegk Exp $
* $Revision: 161963 $
* $Date: 2005-04-19 16:25:06 -0400 (Tue, 19 Apr 2005) $
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParamsFactory.java,v 1.5 2004/05/13
04:01:22 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23
2004/10/16 22:40:08 mbecke Exp $
* $Revision: 329914 $
* $Date: 2005-10-31 16:24:47 -0500 (Mon, 31 Oct 2005) $
*

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00 mbecke Exp \$

\* \$Revision: 156690 \$

\* \$Date: 2005-03-09 16:40:30 -0500 (Wed, 09 Mar 2005) \$

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```
/** An implementation of the Microsoft proprietary NTLM authentication scheme. For a detailed
 * explanation of the NTLM scheme please see <a href="http://davenport.sourceforge.net/ntlm.html">
 * http://davenport.sourceforge.net/ntlm.html</a>.
 *
 * @author <a href="mailto:remm@apache.org">Remy Maucherat</a>
 * @author Rodney Waldhoff
 * @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>
 * @author Ortwin Gl??ck
 * @author Sean C. Sullivan
 * @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 * @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>
 */
```

Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/NTLMScheme.java
```

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java,v 1.3
2004/12/20 11:47:46 olegk Exp $
 * $Revision: 280621 $
 * $Date: 2005-09-13 14:41:21 -0400 (Tue, 13 Sep 2005) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/util/DateUtil.java,v 1.2 2004/12/24 20:36:13 olegk Exp \$

\* \$Revision: 224451 \$

\* \$Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/DateUtil.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnectionManager.java,v 1.24 2004/07/05

22:46:58 olegk Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/HttpConnectionManager.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/util/URLConnection.java,v 1.15 2004/04/18

23:51:38 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/util/URLConnection.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38
jsdever Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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jar/org/apache/commons/httpclient/protocol/Protocol.java  
No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9  
2004/09/13 16:25:20 olegk Exp \$  
\* \$Revision: 354155 \$  
\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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jar/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55
olegk Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/ChunkedInputStream.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeException.java,v 1.2 2004/04/18
23:51:36 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthChallengeException.java
No license file was found, but licenses were detected in source scan.

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java,v 1.4
2004/12/21 23:15:21 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpConstants.java,v 1.15 2004/04/18 23:51:35 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7 2004/04/18 23:51:37 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/URI.java,v 1.47 2004/05/13 04:03:25 mbecke Exp \$

\* \$Revision: 372560 \$

\* \$Date: 2006-01-26 11:07:06 -0500 (Thu, 26 Jan 2006) \$

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/URI.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodBase.java,v 1.222 2005/01/14 21:16:40
olegk Exp $
* $Revision: 345322 $
* $Date: 2005-11-17 15:20:08 -0500 (Thu, 17 Nov 2005) $
*
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jar/org/apache/commons/httpclient/HttpMethodBase.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/RedirectException.java,v 1.2 2004/04/18 23:51:35  
jsdever Exp \$

\* \$Revision: 155418 \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/RedirectException.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/HeadMethod.java,v 1.29 2004/06/13 20:22:19 olegk Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 2004/09/30 18:53:20 olegk

Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31 olegk Exp \$

\* \$Revision: 356822 \$

\* \$Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) \$

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jar/org/apache/commons/httpclient/cookie/CookiePolicy.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/ContentLengthInputStream.java,v 1.12 2004/10/04  
22:05:44 olegk Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/ContentLengthInputStream.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthenticationException.java,v 1.6 2004/05/13  
04:02:00 mbecke Exp \$  
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\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
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jar/org/apache/commons/httpclient/auth/AuthenticationException.java



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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13
04:01:22 mbecke Exp $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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*
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```

Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/HttpClientParams.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/GetMethod.java,v 1.26 2004/04/18 23:51:37
jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
* =====
*
*/
```

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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/PutMethod.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NTCredentials.java,v 1.10 2004/04/18 23:51:35
jsdever Exp $
* $Revision: 326707 $
* $Date: 2005-10-19 16:51:46 -0400 (Wed, 19 Oct 2005) $
*

```

```

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/NTCredentials.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParams.java,v 1.6 2004/05/13 04:01:22 mbecke Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpParams.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpMethodParams.java,v 1.17 2004/10/06 17:32:04 olegk Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

\*

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpMethodParams.java

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpMethodParams.java,v 1.9 2004/04/18 23:51:34 jsdever Exp \$

\* \$Revision: 291181 \$

```

* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
*
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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/AutoCloseInputStream.java

```

No license file was found, but licenses were detected in source scan.

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3
2004/05/13 02:26:08 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/PostMethod.java,v 1.58 2004/08/08 12:50:09  
olegk Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/methods/PostMethod.java

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/ProxyClient.java,v 1.5 2004/12/20 11:39:04 olegk Exp

\$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/ProxyClient.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
$
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/StatusLine.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/InvalidCredentialsException.java,v 1.4
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
* =====
*
*/
```



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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/InvalidCredentialsException.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/CircularRedirectException.java,v 1.1 2005/01/14
19:40:39 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/CircularRedirectException.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthenticator.java,v 1.19 2004/10/06 17:32:04 olegk Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/HttpAuthenticator.java

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthPolicy.java,v 1.6 2004/05/13 04:02:00 mbecke Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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/\*\*

\* Authentication policy class. The Authentication policy provides corresponding

\* authentication scheme interface for a given type of authorization challenge.

\* <p>The following specifications are provided:

\* <ul>

\* <li><tt>Basic</tt>: Basic authentication scheme as defined in RFC2617

\* (considered inherently insecure, but most widely supported)

\* <li><tt>Digest</tt>: Digest authentication scheme as defined in RFC2617

\* <li><tt>NTLM</tt>: The NTLM scheme is a proprietary Microsoft Windows

\* Authentication protocol (considered to be the most secure among

\* currently supported authentication

```
schemes)
* </ul>
*
* @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>
*
* @version $Revision: 155418 $
* @since 3.0
*/
/**
 * The NTLM scheme is a proprietary Microsoft Windows Authentication
 * protocol (considered to be the most secure among currently supported
 * authentication schemes).
 */
```

Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthPolicy.java
```

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpClientError.java,v 1.4 2004/05/13 04:03:25
mbecke Exp $
 * $Revision: 155418 $
 * $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
 *
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpClientError.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 2004/07/05 22:46:58 olegk Exp \$

\* \$Revision: 155418 \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpState.java,v 1.38 2004/12/20 11:50:54 olegk Exp

```

$
* $Revision: 377704 $
* $Date: 2006-02-14 06:48:29 -0500 (Tue, 14 Feb 2006) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/HttpState.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/NoHttpResponseException.java  
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/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/URIException.java,v 1.12 2004/09/30 18:53:20 olegk  
Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
\*  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/URIException.java

No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodRetryHandler.java,v 1.2 2004/09/14  
20:11:31 olegk Exp \$

\* \$Revision: 224452 \$

\* \$Date: 2005-07-23 06:33:39 -0400 (Sat, 23 Jul 2005) \$

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jar/org/apache/commons/httpclient/HttpMethodRetryHandler.java



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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23
olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/TimeoutController.java,v 1.6 2004/04/18 23:51:38
jsdever Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
*
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*
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```

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/util/TimeoutController.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/DefaultMethodRetryHandler.java,v 1.4 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java,v 1.1 2004/10/06 03:39:59 mbecke Exp \$

\* \$Revision: 327791 \$

\* \$Date: 2005-10-23 09:27:39 -0400 (Sun, 23 Oct 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/WireLogInputStream.java,v 1.15 2004/06/24 21:39:52 mbecke Exp \$

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\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HeaderElement.java,v 1.23 2004/05/13 04:03:25

mbecke Exp \$

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jar/org/apache/commons/httpclient/HeaderElement.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java,v 1.2

2004/05/13 02:40:36 mbecke Exp \$

\* \$Revision: 354829 \$

\* \$Date: 2005-12-07 14:05:13 -0500 (Wed, 07 Dec 2005) \$

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jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnection.java,v 1.107 2005/01/14 21:30:59  
olegk Exp \$

\* \$Revision: 327792 \$

\* \$Date: 2005-10-23 09:34:28 -0400 (Sun, 23 Oct 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HostConfiguration.java,v 1.23 2005/01/14 21:16:40 olegk Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Wire.java,v 1.9 2004/06/24 21:39:52 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/Wire.java

```

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/RFC2109Spec.java,v 1.21 2004/06/05
16:49:20 olegk Exp $
* $Revision: 290666 $
* $Date: 2005-09-21 05:30:56 -0400 (Wed, 21 Sep 2005) $
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 jar/org/apache/commons/httpclient/cookie/RFC2109Spec.java  
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 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/RFC2617Scheme.java,v 1.10 2004/05/13  
 04:02:00 mbecke Exp \$  
 \* \$Revision: 155418 \$  
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jar/org/apache/commons/httpclient/auth/RFC2617Scheme.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46  
olegk Exp \$  
\* \$Revision: 155418 \$  
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jar/org/apache/commons/httpclient/util/ExceptionUtil.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeParser.java,v 1.10 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePartSource.java,v 1.10
2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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jar/org/apache/commons/httpclient/HttpHost.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/NameValuePair.java,v 1.17 2004/04/18 23:51:35  
jsdever Exp \$

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/NameValuePair.java

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartSource.java,v 1.6 2004/04/18 23:51:37 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePart.java,v 1.19 2004/04/18 23:51:37 jsdever Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/multipart/FilePart.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/jav
a/org/apache/commons/httpclient/util/LangUtils.java $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
*
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/util/LangUtils.java

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/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectMethod.java,v 1.29 2004/06/24 21:39:52  
mbecke Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19 olegk Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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No license file was found, but licenses were detected in source scan.

/\*

\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58

olegk Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk

Exp \$

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jar/org/apache/commons/httpclient/HttpMethod.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk  
Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/util/URIUtil.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpecBase.java,v 1.28 2004/11/06  
19:15:42 mbecke Exp \$  
\* \$Revision: 190485 \$  
\* \$Date: 2005-06-13 15:04:56 -0400 (Mon, 13 Jun 2005) \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/cookie/CookieSpecBase.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/OptionsMethod.java
```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java,v 1.4
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java

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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/Part.java,v 1.16 2005/01/14
21:16:40 olegk Exp $
* $Revision: 332125 $
* $Date: 2005-11-09 14:41:40 -0500 (Wed, 09 Nov 2005) $
*

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ResponseConsumedWatcher.java,v 1.5 2004/04/18 23:51:35 jsdever Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2 2004/04/18 23:51:38 jsdever Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36 jsdever Exp \$

\* \$Revision: 155418 \$



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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/RequestEntity.java,v 1.4 2004/05/17
21:46:03 olegk Exp $
* $Revision: 161963 $
* $Date: 2005-04-19 16:25:06 -0400 (Tue, 19 Apr 2005) $
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jar/org/apache/commons/httpclient/methods/RequestEntity.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedOutputStream.java,v 1.16 2004/05/13  
04:03:25 mbecke Exp \$  
\* \$Revision: 220180 \$  
\* \$Date: 2005-07-21 16:29:45 -0400 (Thu, 21 Jul 2005) \$

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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/IdleConnectionHandler.java

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/\*

```

* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/MalformedCookieException.java,v 1.8
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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```

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jar/org/apache/commons/httpclient/cookie/MalformedCookieException.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java,v 1.1
2004/07/05 22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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jar/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsProvider.java,v 1.6 2004/07/05
22:46:59 olegk Exp $
* $Revision: 357669 $
* $Date: 2005-12-19 04:19:10 -0500 (Mon, 19 Dec 2005) $
*
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```

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```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/auth/CredentialsProvider.java
```

# 1.452 spring-security-taglibs 3.2.4.RELEASE

## 1.452.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1114224936_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-  
jar/org/springframework/security/taglibs/authz/AbstractAuthorizeTag.java
```

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Found in path(s):

\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/CsrfMetaTagsTag.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/TagLibConfig.java

\*  
/opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/CsrfInputTag.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/AbstractCsrfTag.java  
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Found in path(s):

\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/velocity/Authz.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/authz/AccessControlListTag.java

\*  
/opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/velocity/AuthzImpl.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/authz/AuthenticationTag.java

# 1.453 scala-library 2.10.4

## 1.453.1 Available under license :

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```
/**
 * Copyright 2008 Google Inc. All Rights Reserved.
 * @author Burak Emir <bqe@google.com>
 */
/** This class represents an attribute and at the same time a linked list of
 * attributes. Every instance of this class is either
 * - an instance of `UnprefixedAttribute key,value` or
 * - an instance of `PrefixedAttribute namespace_prefix,key,value` or
 * - `Null, the empty attribute list.
 *
 * Namespace URIs are obtained by using the namespace scope of the element
 * owning this attribute (see `getNamespace`).
 *
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 */
```

Found in path(s):

\* /opt/cola/permits/1114224916\_1607455104.2/0/scala-library-2-10-4-sources-3-jar/scala/xml/MetaData.scala

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```
/**
 * Latch used to implement waiting on a DefaultPromise's result.
 *
 * Inspired by: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/locks/AbstractQueuedSynchronizer.java
 * Written by Doug Lea with assistance from members of JCP JSR-166
 * Expert Group and released to the public domain, as explained at
 * http://creativecommons.org/publicdomain/zero/1.0/
 */
```

Found in path(s):

\* /opt/cola/permits/1114224916\_1607455104.2/0/scala-library-2-10-4-sources-3-jar/scala/concurrent/impl/Promise.scala

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```
/** This singleton object contains the `apply` and `unapplySeq` methods for
 * convenient construction and deconstruction. It is possible to deconstruct
 * any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
 * syntax `case Elem(prefix, label, attribs, scope, child @ _) => ...`
 *
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```



\* @author Burak Emir <bqe@google.com>

\*/

Found in path(s):

\* /opt/cola/permits/1114224916\_1607455104.2/0/scala-library-2-10-4-sources-3-jar/scala/xml/Elem.scala

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/\*\*

\*

\* A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`  
\* field. This is particularly useful for instantiating `Array`s whose element types are unknown  
\* at compile time.

\*

\* `ClassTag`s are a weaker special case of `[[scala.reflect.api.TypeTags#TypeTag]]`s, in that they  
\* wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type  
\* information. That is, `ClassTag`s are constructed from knowing only the top-level class of a  
\* type, without necessarily knowing all of its argument types. This runtime information is enough  
\* for runtime `Array` creation.

\*

\* For example:

\* {{{

\* scala> def mkArray[T : ClassTag](elems: T\*) = Array[T](elems: \_\*)

\* mkArray: [T](elems: T\*)(implicit evidence\$1: scala.reflect.ClassTag[T])Array[T]

\*

\* scala> mkArray(42, 13)

\* res0: Array[Int] = Array(42, 13)

\*

\* scala> mkArray("Japan", "Brazil", "Germany")

\* res1: Array[String] = Array(Japan, Brazil, Germany)

\* }}}

\*

\* See `[[scala.reflect.api.TypeTags]]` for more examples, or the

\* `[[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]`

\* for more details.

\*

\*/

Found in path(s):

\* /opt/cola/permits/1114224916\_1607455104.2/0/scala-library-2-10-4-sources-3-jar/scala/reflect/ClassTag.scala

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# 1.455 spring-security-web 3.2.4.RELEASE

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```
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequestFactory.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/AntPathRequestMatcher.java
*
/opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/SaveContextOnUpdateOrErrorResponseWrapper.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/AntPathRequestMatcher.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/RegexRequestMatcher.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequest25RequestFactory.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServletRequest3RequestFactory.java
*
```

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/RegexRequestMatcher.java  
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\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/ELRequestMatcherContext.java  
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\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/NegatedRequestMatcher.java

\*

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java

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\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java

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- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelProcessingFilter.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolverImpl.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/NonceExpiredException.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/AbstractAuthenticationProcessingFilter.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/Enumerator.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapperImpl.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/WebAuthenticationDetails.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/ExceptionTranslationFilter.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/FilterChainProxy.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/UrlUtils.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelDecisionManagerImpl.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/FastDateFormat.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/SavedRequestAwareWrapper.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/switchuser/AuthenticationSwitchUserEvent.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/DefaultSavedRequest.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/DefaultWebInvocationPrivilegeEvaluator.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/FilterSecurityInterceptor.java

\*

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapper.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelEntryPoint.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/NullRememberMeServices.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/AccessDeniedHandler.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/BasicAuthenticationEntryPoint.java

\*

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/switchuser/SwitchUserGrantedAuthority.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/ConcurrentSessionFilter.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolver.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/BasicAuthenticationFilter.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/DefaultFilterInvocationSecurityMetadataSource.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/AccessDeniedHandlerImpl.java

\*

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/SecureChannelProcessor.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/RememberMeServices.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/InsecureChannelProcessor.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionEventPublisher.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/AuthenticationEntryPoint.java

\*

/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/RetryWithHttpsEntryPoint.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/RetryWithHttpEntryPoint.java

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestWrapper.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/LoginUrlAuthenticationEntryPoint.java  
\*  
/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/DigestAuthenticationEntryPoint.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/WebInvocationPrivilegeEvaluator.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/UsernamePasswordAuthenticationFilter.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/switchuser/SwitchUserFilter.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/rememberme/RememberMeAuthenticationFilter.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/logout/LogoutHandler.java  
\*  
/opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelProcessor.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelDecisionManager.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java  
\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/logout/LogoutFilter.java  
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Found in path(s):

\* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/session/CompositeSessionAuthenticationStrategy.java

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```
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/RequestHeaderRequestMatcher.java
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Found in path(s):

```
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/FilterInvocation.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestFilter.java
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Found in path(s):

```
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/HeaderWriterFilter.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/rememberme/JdbcTokenRepositoryImpl.java
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```

Found in path(s):

```
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/DigestAuthenticationFilter.java
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- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/DefaultCsrfToken.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/bind/support/AuthenticationPrincipalArgumentResolver.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfException.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/HttpSessionCsrfTokenRepository.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/InvalidSessionAccessDeniedHandler.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/session/AbstractSessionFixationProtectionStrategy.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/session/SessionFixationProtectionEvent.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/HeaderWriter.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/InvalidCsrfTokenException.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/AnyRequestMatcher.java
- \*
- /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/writers/CacheControlHeadersWriter.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/writers/DelegatingRequestMatcherHeaderWriter.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfLogoutHandler.java
- \* /opt/cola/permits/1114224839\_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-

```

jar/org/springframework/security/web/header/writers/frameoptions/XFrameOptionsHeaderWriter.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servlet/support/csrf/CsrfRequestDataValueProcessor.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/CsrfAuthenticationStrategy.java
*
/opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/bind/annotation/AuthenticationPrincipal.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/ChangeSessionIdAuthenticationStrategy.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/HstsHeaderWriter.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/SessionFixationProtectionStrategy.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/MediaTypeRequestMatcher.java
*
/opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/CsrfFilter.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/CsrfToken.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XXssProtectionHeaderWriter.java
* /opt/cola/permits/1114224839_1607455157.94/0/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XContentTypeOptionsHeaderWriter.java

```

## 1.456 object-cache-api 0.8.4-Beryllium-SR4

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## 1.457 spring-security-core 3.2.4.RELEASE

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```
/**
```

```
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
```

```
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
```

```
* <p>
```

```
* For internal use only.
```

```
*
* @author Luke Taylor
* @since 3.0
*/
```

Found in path(s):

```
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/codec/Base64.java
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```

```
*/
```

```
/**
```

```
* Reviews the Object returned from a secure object invocation,
```

```
* being able to modify the Object or throw an { @link
```

```
* AccessDeniedException }.
```

```
* <p>
```

```
* Typically used to ensure the principal is permitted to access the domain
```

```
* object instance returned by a service layer bean.
```

```
Can also be used to
```

```
* mutate the domain object instance so the principal is only able to access
```

```
* authorised bean properties or Collection elements.
```

```
* <p>
```

```
* Special consideration should be given to using an
```

```
* AfterInvocationManager on bean methods that modify a database.
```

```
* Typically an AfterInvocationManager is used with read-only
```

```
* methods, such as public DomainObject getById(id). If used with
```

```
* methods that modify a database, a transaction manager should be used to
```

```
* ensure any AccessDeniedException will cause a rollback of the
```

```
* changes made by the transaction.
```

```
* </p>
```

```
*/
```

```
* @author Ben Alex
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/method/P.java

\*

/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java

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```
/**
 * A token issued by { @link TokenService }.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of { @link TokenService }
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */
```

Found in path(s):

```
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
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 */
```

```
/**
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
 Algorithm.
 *
 * @author Alan Stewart
 */
```

Found in path(s):

```
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
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\* Determines if the { @link #getAuthentication() } has permission to access the target given the permission

\* @param target the target domain object to check permission on

\* @param permission the permission to check on the domain object (i.e. "read", "write", etc).

\* @return true if permission is granted to the { @link #getAuthentication() }, else false

\*/

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java

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\*

\* @param authentication represents the user in question. Should not be null.

\* @param targetDomainObject the domain object for which permissions should be checked. May be null

\* in which case implementations should return false, as the null condition can be checked explicitly

\* in the expression.

\* @param permission a representation of the permission object as supplied by the expression system. Not null.

\* @return true if the permission is granted, false otherwise

\*/

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/PermissionEvaluator.java

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\*/

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/MethodInvocationUtils.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/SimpleMethodInvocation.java  
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/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDeniedException.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/PasswordEncoder.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/RunAsUserToken.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-



jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/core/session/SessionRegistry.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java  
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/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
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jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java  
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 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/intercept/NullRunAsManager.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java  
 \*  
 /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/authentication/AuthenticationManager.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/event/PublicInvocationEvent.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/ConfigAttributeEditor.java  
 \*  
 /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/userdetails/memory/UserAttribute.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/context/SecurityContextImpl.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/AccountExpiredException.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/AbstractAuthenticationToken.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java  
 \*  
 /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/CredentialsExpiredException.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/InsufficientAuthenticationException.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/event/LoggerListener.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/BadCredentialsException.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/authentication/AuthenticationDetailsSource.java  
 \*  
 /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/AuthenticationException.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/authority/GrantedAuthorityImpl.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/SpringSecurityMessageSource.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java  
 \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
 jar/org/springframework/security/access/AfterInvocationProvider.java  
 \*

/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java

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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java

\*

/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java

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```
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* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
*
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/Encryptors.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/Digester.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
*
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/util/EncodingUtils.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/CipherUtils.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
*
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
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jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java  
*  
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java  
*  
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java  
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
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jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java
*
/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
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jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java
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jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
*
/opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/GlobalAuthenticationConfigurerAda
pter.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
*
/opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/AbstractRequestMatcherRegistry.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/ldap/LdapAuthenticationProviderCon
figurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegist
ry.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java
*
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/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxyRegistrar.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnoreParents.java

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\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/DaoAuthenticationConfigurer.java

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\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/UrlAuthorizationConfigurer.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/servlet/configuration/EnableWebMvcSecurity.java

\*

/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/servlet/configuration/WebMvcSecurityConfiguration.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/SecurityBuilder.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/HeadersConfigurer.java

\*  
/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/AbstractDaoAuthenticatio  
nConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/authentication/configuration/EnableGlobalAuthentication.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/AbstractHttpConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/AbstractInterceptUrlConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/SessionManagementConfigurer.java  
\*  
/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/InMemoryUserDetails  
ManagerConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/builders/HttpSecurity.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/openid/OpenIDLoginConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/http/HttpConfigurationBuilder.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java  
\*  
/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfig  
urer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/SecurityConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/FormLoginConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/AlreadyBuiltException.java  
\*  
/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/RememberMeConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-  
jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-

```

jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsServiceConfig
urer.java
*
/opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractAuthenticationFilterConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsManage
rConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/CsrfConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/WebSecurityConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
*
/opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/ObjectPostProcessor.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/DefaultLoginPageConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerCo
nfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/X509Configurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlingConfigurer.java
*
/opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityConfiguration.java
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```

Found in path(s):

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/debug/SecurityDebugBeanFactoryPostProcessor.java  
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\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/SecurityNamespaceHandler.java  
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\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/CsrfBeanDefinitionParser.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/method/MethodConfigUtils.java



\*  
/opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/AuthenticationConfigBuilder.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/LogoutBeanDefinitionParser.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HttpSecurityBeanDefinitionParser.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/WebConfigUtils.java  
\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java

## 1.460 util 0.8.4-Beryllium-SR4

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## 1.461 mibble-commercial-parser 2.9.3

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```
RFC1213-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    mgmt, NetworkAddress, IpAddress, Counter, Gauge,  
        TimeTicks
```

```

FROM RFC1155-SMI
OBJECT-TYPE
FROM RFC-1212;

-- This MIB module uses the extended OBJECT-TYPE macro as
-- defined in [14];

-- MIB-II (same prefix as MIB-I)

mib-2 OBJECT IDENTIFIER ::= { mgmt 1 }

-- textual conventions

DisplayString ::=
OCTET STRING
-- This data type is used to model textual information taken
-- from the NVT ASCII character set. By convention, objects
-- with this syntax are declared as having

--
-- SIZE (0..255)

PhysAddress ::=
OCTET STRING
-- This data type is used to model media addresses. For many
-- types of media, this will be in a binary representation.
-- For example, an ethernet address would be represented as
-- a string of 6 octets.

-- groups in MIB-II

system OBJECT IDENTIFIER ::= { mib-2 1 }

interfaces
OBJECT IDENTIFIER ::= { mib-2 2 }

at OBJECT IDENTIFIER ::= { mib-2 3 }

ip OBJECT IDENTIFIER ::= { mib-2 4 }

icmp OBJECT IDENTIFIER ::= { mib-2 5 }

tcp OBJECT IDENTIFIER ::= { mib-2 6 }

udp OBJECT IDENTIFIER ::= { mib-2 7 }

```

```

egp      OBJECT IDENTIFIER ::= { mib-2 8 }

-- historical (some say hysterical)
-- cmot   OBJECT IDENTIFIER ::= { mib-2 9 }

transmission OBJECT IDENTIFIER ::= { mib-2 10 }

snmp     OBJECT IDENTIFIER ::= { mib-2 11 }

-- the System group

-- Implementation of the System group is mandatory for all
-- systems. If an agent is not configured to have a value
-- for any of these variables, a string of length 0 is
-- returned.

sysDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "A textual description of the entity. This value
        should include the full name and version
        identification of the
system's hardware type,
        software operating-system, and networking
        software. It is mandatory that this only contain
        printable ASCII characters."
    ::= { system 1 }

sysObjectID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the
        entity. This value is allocated within the SMI
        enterprises subtree (1.3.6.1.4.1) and provides an
        easy and unambiguous means for determining `what
        kind of box' is being managed. For example, if
        vendor `Flintstones, Inc.' was assigned the
        subtree 1.3.6.1.4.1.4242, it could assign the
        identifier 1.3.6.1.4.1.4242.1.1 to its `Fred
        Router'."
    ::= { system 2 }

```

sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The time (in hundredths of a second) since the network management portion of the system was last re-initialized."

::= { system 3 }

sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The textual identification of the contact person for this managed node, together with information on how to contact this person."

::= { system 4 }

sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name."

::= { system 5 }

sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The physical location of this node (e.g., `telephone closet, 3rd floor')."

::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A value which indicates the set of services that this entity primarily offers."

The value is a sum. This sum initially takes the value zero, Then, for each layer, L, in the range 1 through 7, that this node performs transactions for, 2 raised to (L - 1) is added to the sum. For example, a node which performs primarily routing functions would have a value of 4 ( $2^{(3-1)}$ ). In contrast, a node which is a host offering application services would have a value of 72 ( $2^{(4-1)} + 2^{(7-1)}$ ). Note that in the context of the Internet suite of protocols, values should be calculated accordingly:

| layer | functionality                       |
|-------|-------------------------------------|
| 1     | physical (e.g., repeaters)          |
| 2     | datalink/subnetwork (e.g., bridges) |
| 3     | internet (e.g., IP gateways)        |
| 4     | end-to-end (e.g., IP hosts)         |
| 7     | applications (e.g., mail relays)    |

For systems including OSI protocols, layers 5 and 6 may also be counted."

```
::= { system 7 }
```

```
-- the Interfaces group
```

```
-- Implementation of the Interfaces group is mandatory for  
-- all systems.
```

```
ifNumber OBJECT-TYPE
```

```
SYNTAX INTEGER
```

```
ACCESS read-only
```

```
STATUS mandatory
```

```
DESCRIPTION
```

```
"The number of network interfaces (regardless of  
their current state) present on this system."
```

```
::= { interfaces 1 }
```

```
-- the Interfaces table
```

```
-- The Interfaces table contains information on the entity's  
-- interfaces. Each interface is thought of as being  
-- attached to a `subnetwork'. Note that this term should  
-- not be confused with `subnet' which refers to an  
-- addressing partitioning scheme used in the Internet suite  
-- of
```

protocols.

ifTable OBJECT-TYPE

SYNTAX SEQUENCE OF IfEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"A list of interface entries. The number of entries is given by the value of ifNumber."

::= { interfaces 2 }

ifEntry OBJECT-TYPE

SYNTAX IfEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"An interface entry containing objects at the subnetwork layer and below for a particular interface."

INDEX { ifIndex }

::= { ifTable 1 }

IfEntry ::=

SEQUENCE {

ifIndex

INTEGER,

ifDescr

DisplayString,

ifType

INTEGER,

ifMtu

INTEGER,

ifSpeed

Gauge,

ifPhysAddress

PhysAddress,

ifAdminStatus

INTEGER,

ifOperStatus

INTEGER,

ifLastChange

TimeTicks,

ifInOctets

Counter,

ifInUcastPkts

Counter,

ifInNUcastPkts

Counter,

```

ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}

```

ifIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A unique value for each interface. Its value ranges between 1 and the value of ifNumber. The value for each interface must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization."

::= { ifEntry 1 }

ifDescr OBJECT-TYPE

SYNTAX DisplayString

(SIZE (0..255))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A textual string containing information about the interface. This string should include the name of the manufacturer, the product name and the version of the hardware interface."

::= { ifEntry 2 }

ifType OBJECT-TYPE

```

SYNTAX INTEGER {
    other(1),      -- none of the following
    regular1822(2),
    hdh1822(3),
    ddn-x25(4),
    rfc877-x25(5),
    ethernet-csmacd(6),
    iso88023-csmacd(7),
    iso88024-tokenBus(8),
    iso88025-tokenRing(9),
    iso88026-man(10),
    starLan(11),
    proteon-10Mbit(12),
    proteon-80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    ds1(18),      -- T-1

    e1(19),      -- european equiv. of T-1
    basicISDN(20),
    primaryISDN(21), -- proprietary serial
    propPointToPointSerial(22),
    ppp(23),
    softwareLoopback(24),
    eon(25),      -- CLNP over IP [11]
    ethernet-3Mbit(26),
    nsip(27),     -- XNS over IP
    slip(28),     -- generic SLIP
    ultra(29),    -- ULTRA technologies
    ds3(30),     -- T-3
    sip(31),     -- SMDS
    frame-relay(32)
}

```

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The type of interface, distinguished according to the physical/link protocol(s) immediately `below' the network layer in the protocol stack."

::= { ifEntry 3 }

ifMtu OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION



"The size of the largest datagram which can be sent/received on the interface, specified in octets. For interfaces that are used for transmitting network datagrams, this is the size of the largest network datagram that can be sent on the interface."

::= { ifEntry 4 }

#### ifSpeed OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

DESCRIPTION

"An estimate of the interface's current bandwidth in bits per second. For interfaces which do not vary in bandwidth or for those where no accurate estimation can be made, this object should contain the nominal bandwidth."

::= { ifEntry 5 }

#### ifPhysAddress OBJECT-TYPE

SYNTAX PhysAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The interface's address at the protocol layer immediately `below' the network layer in the protocol stack. For

interfaces which do not have

such an address (e.g., a serial line), this object should contain an octet string of zero length."

::= { ifEntry 6 }

#### ifAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The desired state of the interface. The testing(3) state indicates that no operational packets can be passed."

::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE

SYNTAX INTEGER {

up(1), -- ready to pass packets

down(2),

testing(3) -- in some test mode

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The current operational state of the interface.

The testing(3) state indicates that no operational

packets can

be passed."

::= { ifEntry 8 }

ifLastChange OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The value of sysUpTime at the time the interface

entered its current operational state. If the

current state was entered prior to the last re-

initialization of the local network management

subsystem, then this object contains a zero

value."

::= { ifEntry 9 }

ifInOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of octets received on the

interface, including framing characters."

::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of subnetwork-unicast packets

delivered to a higher-layer protocol."

::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of non-unicast (i.e., subnetwork-  
    broadcast or subnetwork-multicast) packets  
    delivered to a higher-layer protocol."  
::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of inbound packets which were chosen  
    to be discarded even though no errors had been  
    detected to prevent their being deliverable to a  
    higher-layer protocol. One possible reason for  
    discarding such a packet could be to free up  
    buffer space."  
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of inbound packets that contained  
    errors preventing them from being deliverable to a  
    higher-layer protocol."  
::= { ifEntry 14 }

ifInUnknownProtos  
OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of packets received via the interface  
    which were discarded because of an unknown or  
    unsupported protocol."  
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of octets transmitted out of the

interface, including framing characters."

::= { ifEntry 16 }

#### ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of packets that higher-level protocols requested be transmitted to a subnetwork-unicast address, including those that were discarded or not sent."

::= { ifEntry 17 }

#### ifOutNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of packets that higher-level protocols requested be transmitted to a non-unicast (i.e., a subnetwork-broadcast or subnetwork-multicast) address, including those that were discarded or not sent."

::= { ifEntry 18 }

#### ifOutDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space."

::= { ifEntry 19 }

#### ifOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of outbound packets that could not be transmitted because of errors."

::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The length of the output packet queue (in packets)."

::= { ifEntry 21 }

ifSpecific OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A reference to MIB definitions specific to the particular media being used to realize the interface. For example, if the interface is realized by an ethernet, then the value of this object refers to a document defining objects specific to ethernet. If this information is not present, its value should be set to the OBJECT IDENTIFIER { 0 0 }, which is a syntatically valid object identifier, and any conformant implementation of ASN.1 and BER must be able to generate and recognize this value."

::= { ifEntry 22 }

-- the Address Translation group

-- Implementation of the Address Translation group is

-- mandatory for all

systems. Note however that this group

-- is deprecated by MIB-II. That is, it is being included

-- solely for compatibility with MIB-I nodes, and will most

-- likely be excluded from MIB-III nodes. From MIB-II and

-- onwards, each network protocol group contains its own

-- address translation tables.

-- The Address Translation group contains one table which is

-- the union across all interfaces of the translation tables

-- for converting a NetworkAddress (e.g., an IP address) into

-- a subnetwork-specific address. For lack of a better term,

-- this document refers to such a subnetwork-specific address

-- as a `physical' address.

-- Examples of such translation tables are: for broadcast

-- media where ARP is in use, the translation table is  
-- equivalent to the ARP cache; or, on an X.25 network where  
-- non-algorithmic translation to X.121 addresses is  
-- required, the translation table contains the  
-- NetworkAddress to X.121 address equivalences.

atTable OBJECT-TYPE

SYNTAX

SEQUENCE OF AtEntry

ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The Address Translation tables contain the  
NetworkAddress to `physical' address equivalences.  
Some interfaces do not use translation tables for  
determining address equivalences (e.g., DDN-X.25  
has an algorithmic method); if all interfaces are  
of this type, then the Address Translation table  
is empty, i.e., has zero entries."

::= { at 1 }

atEntry OBJECT-TYPE

SYNTAX AtEntry

ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Each entry contains one NetworkAddress to  
`physical' address equivalence."

INDEX { atIfIndex,  
atNetAddress }

::= { atTable 1 }

AtEntry ::=

SEQUENCE {

atIfIndex

INTEGER,

atPhysAddress

PhysAddress,

atNetAddress

NetworkAddress

}

atIfIndex OBJECT-TYPE

SYNTAX

INTEGER

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The interface on which this entry's equivalence is effective. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { atEntry 1 }

#### atPhysAddress OBJECT-TYPE

SYNTAX PhysAddress

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The media-dependent `physical' address.

Setting this object to a null string (one of zero length) has the effect of invalidating the corresponding entry in the atTable object. That is, it effectively disassociates the interface identified with said entry from the mapping identified with said entry. It is an implementation-specific matter as to whether the agent removes an invalidated entry from the table. Accordingly,

management stations must be prepared to receive tabular information from agents that corresponds to entries not currently in use. Proper interpretation of such entries requires examination of the relevant atPhysAddress object."

::= { atEntry 2 }

#### atNetAddress OBJECT-TYPE

SYNTAX NetworkAddress

ACCESS read-write

STATUS deprecated

DESCRIPTION

"The NetworkAddress (e.g., the IP address) corresponding to the media-dependent `physical' address."

::= { atEntry 3 }

-- the IP group

-- Implementation of the IP group is mandatory for all  
-- systems.

#### ipForwarding OBJECT-TYPE

SYNTAX INTEGER {

```
        forwarding(1), -- acting as a gateway
        not-forwarding(2) -- NOT acting as a gateway
    }
```

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The indication of whether this entity is acting as an IP gateway in respect to the forwarding of datagrams received by, but not addressed to, this entity. IP gateways forward datagrams. IP hosts do not (except those source-routed via the host).

Note that for some managed nodes, this object may take on only a subset of the values possible. Accordingly, it is appropriate for an agent to return a `badValue' response if a management station attempts to change this object to an inappropriate value."

::= { ip 1 }

ipDefaultTTL OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The default value inserted into the Time-To-Live field of the IP header of datagrams originated at this entity, whenever a TTL value is not supplied by the transport layer protocol."

::= { ip 2 }

ipInReceives OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of input datagrams received from interfaces, including those received in error."

::= { ip 3 }

ipInHdrErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams discarded due to errors in their IP headers, including bad



checksums, version number mismatch, other format errors, time-to-live exceeded, errors discovered in processing their IP options, etc."

::= { ip 4 }

#### ipInAddrErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams discarded because the IP address in their IP header's destination field was not a valid address to be received at this entity. This count includes invalid addresses (e.g., 0.0.0.0) and addresses of unsupported Classes (e.g.,

Class E). For entities

which are not IP Gateways and therefore do not forward datagrams, this counter includes datagrams discarded because the destination address was not a local address."

::= { ip 5 }

#### ipForwDatagrams OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of input datagrams for which this entity was not their final IP destination, as a result of which an attempt was made to find a route to forward them to that final destination. In entities which do not act as IP Gateways, this counter will include only those packets which were Source-Routed via this entity, and the Source-Route option processing was successful."

::= { ip 6 }

#### ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of locally-addressed datagrams

received successfully but discarded because of an unknown or unsupported protocol."

::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of input IP datagrams for which no problems were encountered to prevent their continued processing, but which were discarded (e.g., for lack of buffer space). Note that this counter does not include any datagrams discarded while awaiting re-assembly."

::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of input datagrams successfully delivered to IP user-protocols (including ICMP)."

::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of IP datagrams which local IP user-protocols (including ICMP) supplied to IP in requests for transmission. Note that this counter does not include any datagrams counted in ipForwDatagrams."

::= { ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of output IP datagrams for which no problem was encountered to prevent their transmission to their destination, but which were discarded (e.g., for lack of buffer space). Note that this counter would include datagrams counted in ipForwDatagrams if any such packets met this (discretionary) discard criterion."

::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams discarded because no route could be found to transmit them

to their

destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this 'no-route' criterion. Note that this includes any datagrams which a host cannot route because all of its default gateways are down."

::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The maximum number of seconds which received fragments are held while they are awaiting reassembly at this entity."

::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP fragments received which needed to be reassembled at this entity."

::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of IP datagrams successfully re-assembled."

::= { ip 15 }

ipReasmFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of failures detected by the IP re-assembly algorithm (for whatever reason: timed out, errors, etc). Note that this is not necessarily a count of discarded IP fragments since some algorithms (notably the algorithm in RFC 815) can lose track of the number of fragments by combining them as they are received."  
::= { ip 16 }

ipFragOKs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of IP datagrams that have been successfully fragmented at this entity."  
::= { ip 17 }

ipFragFails OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of IP datagrams that have been discarded because they needed to be fragmented at this entity but could not be, e.g., because their Don't Fragment flag was set."  
::= { ip 18 }

ipFragCreates OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of IP datagram fragments that have been generated as a result of fragmentation at this entity."  
::= { ip 19 }

-- the IP address table  
  
-- The IP address table contains this entity's IP addressing  
-- information.

ipAddrTable OBJECT-TYPE  
SYNTAX SEQUENCE OF IpAddrEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The table of addressing information relevant to  
    this entity's IP addresses."  
::= { ip 20 }

ipAddrEntry OBJECT-TYPE  
SYNTAX IpAddrEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The addressing information for one of this  
    entity's IP addresses."  
INDEX { ipAdEntAddr }  
::=  
{ ipAddrTable 1 }

IpAddrEntry ::=  
SEQUENCE {  
    ipAdEntAddr  
        IpAddress,  
    ipAdEntIfIndex  
        INTEGER,  
    ipAdEntNetMask  
        IpAddress,  
    ipAdEntBcastAddr  
        INTEGER,  
    ipAdEntReasmMaxSize  
        INTEGER (0..65535)  
}

ipAdEntAddr OBJECT-TYPE  
SYNTAX IpAddress  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The IP address to which this entry's addressing  
    information pertains."  
::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The index value which uniquely identifies the interface to which this entry is applicable. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE

SYNTAX IPAddress

ACCESS

read-only

STATUS mandatory

DESCRIPTION

"The subnet mask associated with the IP address of this entry. The value of the mask is an IP address with all the network bits set to 1 and all the hosts bits set to 0."

::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The value of the least-significant bit in the IP broadcast address used for sending datagrams on the (logical) interface associated with the IP address of this entry. For example, when the Internet standard all-ones broadcast address is used, the value will be 1. This value applies to both the subnet and network broadcasts addresses used by the entity on this (logical) interface."

::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The size of the largest IP datagram which this entity can re-assemble from incoming IP fragmented datagrams received on this interface."

::= { ipAddrEntry 5 }

-- the IP routing table

-- The IP routing table contains an entry for each route

-- presently known to this entity.

ipRouteTable OBJECT-TYPE  
SYNTAX SEQUENCE OF IpRouteEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "This entity's IP Routing table."  
 ::= { ip 21 }

ipRouteEntry OBJECT-TYPE  
SYNTAX IpRouteEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "A route to a particular destination."  
INDEX { ipRouteDest }  
 ::= { ipRouteTable 1 }

IpRouteEntry ::=  
SEQUENCE {  
    ipRouteDest  
        IpAddress,  
    ipRouteIfIndex  
        INTEGER,  
    ipRouteMetric1  
        INTEGER,  
    ipRouteMetric2  
        INTEGER,  
    ipRouteMetric3  
        INTEGER,  
    ipRouteMetric4  
        INTEGER,  
    ipRouteNextHop  
        IpAddress,  
    ipRouteType  
        INTEGER,  
    ipRouteProto  
        INTEGER,  
    ipRouteAge  
        INTEGER,  
    ipRouteMask  
        IpAddress,  
    ipRouteMetric5  
        INTEGER,  
    ipRouteInfo  
        OBJECT IDENTIFIER  
}

ipRouteDest OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The destination IP address of this route. An entry with a value of 0.0.0.0 is considered a default route. Multiple routes to a single destination can appear in the table, but access to such multiple entries is dependent on the table-access mechanisms defined by the network management protocol in use."

::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The index value which uniquely identifies the local interface through which the next hop of this route should be reached. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."

::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The primary routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined



by the

routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The IP address of the next hop of this route. (In the case of a route bound to an interface which is realized via a broadcast media, the value of this field is the agent's IP address on that interface.)"

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

invalid(2), -- an invalidated route

```

        -- route to directly
direct(3),    -- connected (sub-)network

        -- route to a non-local
indirect(4)  -- host/network/sub-network
    }
ACCESS read-write
STATUS mandatory
DESCRIPTION
    "The type of route. Note that the values
    direct(3) and indirect(4) refer
to the notion of
    direct and indirect routing in the IP
    architecture.

Setting this object to the value invalid(2) has
the effect of invalidating the corresponding entry
in the ipRouteTable object. That is, it
effectively disassociates the destination
identified with said entry from the route
identified with said entry. It is an
implementation-specific matter as to whether the
agent removes an invalidated entry from the table.
Accordingly, management stations must be prepared
to receive tabular information from agents that
corresponds to entries not currently in use.
Proper interpretation of such entries requires
examination of the relevant ipRouteType object."
::= { ipRouteEntry 8 }

```

#### ipRouteProto OBJECT-TYPE

```

SYNTAX INTEGER {
    other(1),    -- none of the following

        -- non-protocol information,
        -- e.g., manually configured
local(2),      -- entries

        -- set via a network
netmgmt(3),   -- management protocol

        -- obtained via ICMP,
icmp(4),      -- e.g., Redirect

        -- the remaining values are
        -- all gateway routing
        -- protocols

```

```
    egp(5),
    ggp(6),
    hello(7),
    rip(8),
    is-is(9),
    es-is(10),
    ciscoIgrp(11),
    bbnSpfIgp(12),
    ospf(13),
    bgp(14)
}
```

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The routing mechanism via which this route was learned. Inclusion of values for gateway routing protocols

is not intended to imply that hosts

should support those protocols."

::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The number of seconds since this route was last updated or otherwise determined to be correct.

Note that no semantics of 'too old' can be implied except through knowledge of the routing protocol by which the route was learned."

::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicate the mask to be logical-ANDed with the destination address before being compared to the value in the ipRouteDest field. For those systems that do not support arbitrary subnet masks, an agent constructs the value of the ipRouteMask by determining whether the value of the correspondent ipRouteDest field belong to a class-A, B, or C network, and then using one of:

mask      network

255.0.0.0 class-A  
255.255.0.0 class-B  
255.255.255.0 class-C

If the value of the ipRouteDest is 0.0.0.0 (a default route), then the mask value is also 0.0.0.0. It should be noted that all IP routing subsystems implicitly use this mechanism."

::= { ipRouteEntry 11 }

#### ipRouteMetric5 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

::= { ipRouteEntry 12 }

#### ipRouteInfo OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"A reference to MIB definitions specific to the particular routing protocol which is responsible for this route, as determined by the value specified in the route's ipRouteProto value. If this information is not present, its value should be set to the OBJECT IDENTIFIER { 0 0 }, which is a syntatically valid object identifier, and any conformant implementation of ASN.1 and BER must be able to generate and recognize this value."

::= { ipRouteEntry 13 }

-- the IP Address Translation table

-- The IP address translation table contain the IPAddress to  
-- `physical' address equivalences. Some interfaces do not  
-- use translation tables for determining address  
-- equivalences (e.g., DDN-X.25 has an algorithmic method);  
-- if all interfaces are of this type, then the Address  
-- Translation table is empty, i.e., has zero  
entries.

ipNetToMediaTable OBJECT-TYPE  
SYNTAX SEQUENCE OF IpNetToMediaEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The IP Address Translation table used for mapping  
    from IP addresses to physical addresses."  
 ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE  
SYNTAX IpNetToMediaEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "Each entry contains one IpAddress to `physical'  
    address equivalence."  
INDEX { ipNetToMediaIfIndex,  
        ipNetToMediaNetAddress }  
 ::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::=  
SEQUENCE {  
    ipNetToMediaIfIndex  
        INTEGER,  
    ipNetToMediaPhysAddress  
        PhysAddress,  
    ipNetToMediaNetAddress  
        IpAddress,  
    ipNetToMediaType  
        INTEGER  
}

ipNetToMediaIfIndex OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
    "The interface  
on which this entry's equivalence  
    is effective. The interface identified by a  
    particular value of this index is the same  
    interface as identified by the same value of  
    ifIndex."  
 ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE  
SYNTAX PhysAddress  
ACCESS read-write

STATUS mandatory  
DESCRIPTION  
"The media-dependent `physical' address."  
::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IpAddress  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
"The IpAddress corresponding to the media-  
dependent `physical' address."  
::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

SYNTAX INTEGER {  
    other(1),    -- none of the following  
    invalid(2),  -- an invalidated mapping  
    dynamic(3),  
    static(4)  
}  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
"The type of mapping.  
  
Setting this object to the value invalid(2) has  
the effect of invalidating the corresponding entry  
in the ipNetToMediaTable. That is, it effectively  
dissociates the interface identified with said  
entry from the mapping identified with said entry.  
It is an implementation-specific matter as to  
whether the agent removes an invalidated entry  
from the table. Accordingly, management stations  
must be prepared to receive tabular information  
from agents that corresponds to entries not  
currently in use. Proper interpretation of such  
entries requires examination of the relevant  
ipNetToMediaType object."  
::= { ipNetToMediaEntry 4 }

-- additional IP objects

ipRoutingDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

DESCRIPTION

"The number of routing entries which were chosen to be discarded even though they are valid. One possible reason for discarding such an entry could be to free-up buffer space for other routing entries."  
::= { ip 23 }

-- the ICMP group

-- Implementation of the ICMP group is mandatory for all systems.

icmpInMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of ICMP messages which the entity received. Note that this counter includes all those counted by icmpInErrors."

::= { icmp 1 }

icmpInErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of ICMP messages which the entity received but determined as having ICMP-specific errors (bad ICMP checksums, bad length, etc.)."

::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE

SYNTAX Counter  
  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of ICMP Destination Unreachable messages received."

::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only

STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Time Exceeded messages  
    received."  
::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Parameter Problem messages  
    received."  
::= { icmp 5 }

icmpInSrcQuenchs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Source Quench messages  
    received."  
::= { icmp 6 }

icmpInRedirects OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Redirect messages received."  
::= { icmp 7 }

icmpInEchos OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Echo (request) messages  
    received."  
::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Echo Reply messages received."  
::= { icmp 9 }



icmpInTimestamps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Timestamp (request) messages received."

::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Timestamp Reply messages received."

::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Address Mask Request messages received."

::= {  
icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Address Mask Reply messages received."

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of ICMP messages which this entity attempted to send. Note that this counter includes all those counted by icmpOutErrors."

::= { icmp 14 }

icmpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP messages which this entity did not send due to problems discovered within ICMP such as a lack of buffers. This value should not include errors discovered outside the ICMP layer such as the inability of IP to route the resultant datagram. In some implementations there may

be no

types of error which contribute to this counter's value."

::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Destination Unreachable messages sent."

::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Time Exceeded messages sent."

::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Parameter Problem messages sent."

::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Source Quench messages sent."

::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS

mandatory

DESCRIPTION

"The number of ICMP Redirect messages sent. For a host, this object will always be zero, since hosts do not send redirects."

::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Echo (request) messages sent."

::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Echo Reply messages sent."

::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Timestamp (request) messages sent."

::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of ICMP Timestamp Reply messages sent."

::= {

icmp 24 }

icmpOutAddrMasks OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Address Mask Request messages  
    sent."  
 ::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of ICMP Address Mask Reply messages  
    sent."  
 ::= { icmp 26 }

-- the TCP group

-- Implementation of the TCP group is mandatory for all  
-- systems that implement the TCP.

-- Note that instances of object types that represent  
-- information about a particular TCP connection are  
-- transient; they persist only as long as the connection  
-- in question.

tcpRtoAlgorithm OBJECT-TYPE  
SYNTAX INTEGER {  
    other(1), -- none of the following  
  
    constant(2), -- a constant rto  
    rsre(3), -- MIL-STD-1778, Appendix B  
    vanj(4) -- Van Jacobson's algorithm [10]  
}  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The algorithm used to determine the timeout value  
    used for retransmitting unacknowledged octets."  
 ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only

STATUS mandatory

DESCRIPTION

"The minimum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds. More refined semantics for objects of this type depend upon the algorithm used to determine the retransmission timeout. In particular, when the timeout algorithm is rsre(3), an object of this type has the semantics of the LBOUND quantity described in RFC 793."

::= { tcp 2 }

tcpRtoMax OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The maximum value permitted by a TCP implementation for the retransmission timeout, measured in milliseconds. More refined semantics for objects of this type depend upon the algorithm used to determine the retransmission timeout. In particular, when the timeout algorithm is rsre(3), an object of this type has the semantics of the UBOUND quantity described in RFC 793."

::= { tcp 3 }

tcpMaxConn OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The limit on the total number of TCP connections the entity can support. In entities where the maximum number of connections is dynamic, this object should contain the value -1."

::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the SYN-SENT state from the CLOSED state."

::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the SYN-RCVD state from the LISTEN state."

::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the CLOSED state from either the SYN-SENT state or the SYN-RCVD state, plus the number of times TCP connections have made a direct transition to the LISTEN state from the SYN-RCVD state."

::= { tcp 7 }

tcpEstabResets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times TCP connections have made a direct transition to the CLOSED state from either the ESTABLISHED state or the CLOSE-WAIT state."

::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of TCP connections for which the current state is either ESTABLISHED or CLOSE-WAIT."

::= { tcp 9 }

tcpInSegs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments received, including those received in error. This count includes segments received on currently established connections."  
::= { tcp 10 }

tcpOutSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments sent, including those on current connections but excluding those containing only retransmitted octets."  
::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of segments retransmitted - that is, the number of TCP segments transmitted containing one or more previously transmitted octets."  
::= { tcp 12 }

-- the TCP Connection table

-- The TCP connection table contains information about this  
-- entity's existing TCP connections.

tcpConnTable OBJECT-TYPE  
SYNTAX SEQUENCE OF TcpConnEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "A table containing TCP connection-specific information."  
::= { tcp 13 }

tcpConnEntry OBJECT-TYPE  
SYNTAX TcpConnEntry  
ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Information about a particular current TCP connection. An object of this type is transient, in that it ceases to exist when (or soon after) the connection makes the transition to the CLOSED state."

INDEX

```
{ tcpConnLocalAddress,  
  tcpConnLocalPort,  
  tcpConnRemAddress,  
  tcpConnRemPort }  
::= { tcpConnTable 1 }
```

TcpConnEntry ::=

```
SEQUENCE {  
  tcpConnState  
    INTEGER,  
  tcpConnLocalAddress  
    IPAddress,  
  tcpConnLocalPort  
    INTEGER (0..65535),  
  tcpConnRemAddress  
    IPAddress,  
  tcpConnRemPort  
    INTEGER (0..65535)  
}
```

tcpConnState OBJECT-TYPE

```
SYNTAX INTEGER {  
  closed(1),  
  listen(2),  
  synSent(3),  
  synReceived(4),  
  established(5),  
  finWait1(6),  
  finWait2(7),  
  closeWait(8),  
  lastAck(9),  
  closing(10),  
  timeWait(11),  
  deleteTCB(12)  
}
```

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The state of this TCP connection."



The only value which may be set by a management station is deleteTCB(12). Accordingly, it is appropriate for an agent to return a `badValue` response if a management station attempts to set this object to any other value.

If a management station sets this object to the value deleteTCB(12), then this has the effect of deleting the TCB (as defined in RFC 793) of the corresponding connection on the managed node, resulting in immediate termination of the connection.

As an implementation-specific option, a RST segment may be sent from the managed node to the other TCP endpoint (note however that RST segments are not sent reliably)."

```
::= { tcpConnEntry 1 }
```

tcpConnLocalAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local IP address for this TCP connection. In

the case of a connection in the listen state which is willing to accept connections for any IP interface associated with the node, the value 0.0.0.0 is used."

```
::= { tcpConnEntry 2 }
```

tcpConnLocalPort OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The local port number for this TCP connection."

```
::= { tcpConnEntry 3 }
```

tcpConnRemAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The remote IP address for this TCP connection."

```
::= { tcpConnEntry 4 }
```

```
tcpConnRemPort OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The remote port number for this TCP connection."
    ::= { tcpConnEntry 5 }
```

-- additional TCP objects

```
tcpInErrs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The total number
of segments received in error
        (e.g., bad TCP checksums)."
    ::= { tcp 14 }
```

```
tcpOutRsts OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The number of TCP segments sent containing the
        RST flag."
    ::= { tcp 15 }
```

-- the UDP group

-- Implementation of the UDP group is mandatory for all  
-- systems which implement the UDP.

```
udpInDatagrams OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The total number of UDP datagrams delivered to
        UDP users."
    ::= { udp 1 }
```

```
udpNoPorts OBJECT-TYPE
    SYNTAX Counter
```

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of received UDP datagrams for  
    which there was no application at the destination  
    port."  
::= { udp 2 }

udpInErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The number of received UDP datagrams that could  
    not be delivered for reasons other than the lack  
    of an application at the destination port."  
::= { udp 3 }

udpOutDatagrams OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of UDP datagrams sent from this  
    entity."  
::= { udp 4 }

-- the UDP Listener table

-- The UDP listener table contains information about this  
-- entity's UDP end-points on which a local application is  
-- currently accepting datagrams.

udpTable OBJECT-TYPE

SYNTAX SEQUENCE OF UdpEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION

"A table containing UDP listener information."  
::= { udp 5 }

udpEntry OBJECT-TYPE

SYNTAX UdpEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION

```

        "Information about a particular current UDP
        listener."
    INDEX { udpLocalAddress, udpLocalPort
    }
    ::= { udpTable 1 }

UdpEntry ::=
    SEQUENCE {
        udpLocalAddress
        IpAddress,
        udpLocalPort
        INTEGER (0..65535)
    }

udpLocalAddress OBJECT-TYPE
    SYNTAX IpAddress
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The local IP address for this UDP listener. In
        the case of a UDP listener which is willing to
        accept datagrams for any IP interface associated
        with the node, the value 0.0.0.0 is used."
    ::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
    SYNTAX INTEGER (0..65535)
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The local port number for this UDP listener."
    ::= { udpEntry 2 }

-- the EGP group

-- Implementation of the EGP group is mandatory for all
-- systems which implement the EGP.

egpInMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "The number of EGP messages received without
        error."
    ::= { egp 1 }

```

egpInErrors OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP messages received that proved  
    to be in error."  
 ::= { egp 2 }

egpOutMsgs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of locally generated EGP  
    messages."  
 ::= { egp 3 }

egpOutErrors OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of locally generated EGP messages not  
    sent due to resource limitations within an EGP  
    entity."  
 ::= { egp 4 }

-- the EGP Neighbor table

-- The EGP neighbor table contains information about this  
-- entity's EGP neighbors.

egpNeighTable OBJECT-TYPE  
SYNTAX SEQUENCE OF EgpNeighEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "The EGP neighbor table."  
 ::= { egp 5 }

egpNeighEntry OBJECT-TYPE  
SYNTAX EgpNeighEntry  
ACCESS not-accessible  
STATUS mandatory  
DESCRIPTION  
    "Information about this entity's relationship with

a particular EGP neighbor."

INDEX { egpNeighAddr }

::= { egpNeighTable 1 }

EgpNeighEntry ::=

SEQUENCE {

  egpNeighState

    INTEGER,

  egpNeighAddr

    IpAddress,

  egpNeighAs

    INTEGER,

  egpNeighInMsgs

    Counter,

  egpNeighInErrs

    Counter,

  egpNeighOutMsgs

    Counter,

  egpNeighOutErrs

    Counter,

  egpNeighInErrMsgs

    Counter,

  egpNeighOutErrMsgs

    Counter,

  egpNeighStateUps

    Counter,

  egpNeighStateDowns

    Counter,

  egpNeighIntervalHello

    INTEGER,

  egpNeighIntervalPoll

    INTEGER,

  egpNeighMode

    INTEGER,

  egpNeighEventTrigger

    INTEGER

  }

egpNeighState OBJECT-TYPE

SYNTAX INTEGER {

  idle(1),

  acquisition(2),

  down(3),

  up(4),

  cease(5)

  }

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The EGP state of the local system with respect to this entry's EGP neighbor. Each EGP state is represented by a value that is one greater than the numerical value associated with said state in RFC 904."

::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The IP address of this entry's EGP neighbor."

::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The autonomous system of this EGP peer. Zero should be specified if the autonomous system number

of the neighbor is not yet known."

::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of EGP messages received without error from this EGP peer."

::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of EGP messages received from this EGP peer that proved to be in error (e.g., bad EGP checksum)."

::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of locally generated EGP messages to  
    this EGP peer."  
::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of locally generated EGP messages not  
    sent to this  
EGP peer due to resource limitations  
    within an EGP entity."  
::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP-defined error messages received  
    from this EGP peer."  
::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP-defined error messages sent to  
    this EGP peer."  
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP state transitions to the UP  
    state with this EGP peer."  
::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE  
SYNTAX Counter



ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The number of EGP state transitions from the UP  
    state to any  
other state with this EGP peer."  
::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The interval between EGP Hello command  
    retransmissions (in hundredths of a second). This  
    represents the t1 timer as defined in RFC 904."  
::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The interval between EGP poll command  
    retransmissions (in hundredths of a second). This  
    represents the t3 timer as defined in RFC 904."  
::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE  
SYNTAX INTEGER { active(1), passive(2) }  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The polling mode of this EGP entity, either  
    passive or active."  
::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE  
SYNTAX INTEGER  
{ start(1), stop(2) }  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
    "A control variable used to trigger operator-  
    initiated Start and Stop events. When read, this  
    variable always returns the most recent value that  
    egpNeighEventTrigger was set to. If it has not  
    been set since the last initialization of the

network management subsystem on the node, it returns a value of `stop`.

When set, this variable causes a Start or Stop event on the specified neighbor, as specified on pages 8-10 of RFC 904. Briefly, a Start event causes an Idle peer to begin neighbor acquisition and a non-Idle peer to reinitiate neighbor acquisition. A stop event causes a non-Idle peer to return to the Idle state until a Start event occurs, either via `egpNeighEventTrigger` or otherwise."

```
::= { egpNeighEntry  
15 }
```

```
-- additional EGP objects
```

```
egpAs OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The autonomous system number of this EGP entity."  
 ::= { egp 6 }
```

```
-- the Transmission group
```

```
-- Based on the transmission media underlying each interface  
-- on a system, the corresponding portion of the Transmission  
-- group is mandatory for that system.
```

```
-- When Internet-standard definitions for managing  
-- transmission media are defined, the transmission group is  
-- used to provide a prefix for the names of those objects.
```

```
-- Typically, such definitions reside in the experimental  
-- portion of the MIB until they are "proven", then as a  
-- part of the Internet standardization process, the  
-- definitions are accordingly elevated and a new object  
-- identifier, under the transmission group is defined. By  
-- convention, the name assigned is:
```

```
--  
-- type OBJECT IDENTIFIER ::= { transmission number }
```

```
-- where "type" is the symbolic  
value used for the media in  
-- the ifType column of the ifTable object, and "number" is
```

-- the actual integer value corresponding to the symbol.

-- the SNMP group

-- Implementation of the SNMP group is mandatory for all  
-- systems which support an SNMP protocol entity. Some of  
-- the objects defined below will be zero-valued in those  
-- SNMP implementations that are optimized to support only  
-- those functions specific to either a management agent or  
-- a management station. In particular, it should be  
-- observed that the objects below refer to an SNMP entity,  
-- and there may be several SNMP entities residing on a  
-- managed node (e.g., if the node is hosting acting as  
-- a management station).

snmpInPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of Messages delivered to the  
SNMP entity from the transport service."

::= { snmp 1 }

snmpOutPkts OBJECT-TYPE

SYNTAX Counter

ACCESS

read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Messages which were  
passed from the SNMP protocol entity to the  
transport service."

::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Messages which were  
delivered to the SNMP protocol entity and were for  
an unsupported SNMP version."

::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP Messages delivered to  
    the SNMP protocol entity which used a SNMP  
    community name not known to said entity."  
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP Messages delivered to  
  
    the SNMP protocol entity which represented an SNMP  
    operation which was not allowed by the SNMP  
    community named in the Message."  
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of ASN.1 or BER errors  
    encountered by the SNMP protocol entity when  
    decoding received SNMP Messages."  
::= { snmp 6 }

-- { snmp 7 } is not used

snmpInTooBigs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The total number of SNMP PDUs which were  
    delivered to the SNMP protocol entity and for  
    which the value of the error-status field is  
    `tooBig'."  
::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `noSuchName'."  
 ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `badValue'."

::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number valid SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `readOnly'. It should be noted that it is a protocol error to generate an SNMP PDU which contains the value `readOnly' in the error-status field, as such this object is provided as a means of detecting

incorrect implementations of the SNMP."

::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is `genErr'."

::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs."  
::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs."  
::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity."  
::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity."  
::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Set-Request PDUs which have been accepted and processed by the SNMP

protocol entity."  
 ::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Get-Response PDUs which  
have been accepted and processed by the SNMP  
protocol entity."  
 ::= { snmp 18 }

snmpInTraps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP Trap PDUs which have  
been accepted and processed by the SNMP protocol  
entity."  
 ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP PDUs which were  
generated by the SNMP protocol entity and for  
which the value of the error-status field is  
'tooBig.'"  
 ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
"The total number of SNMP PDUs which were  
generated by the SNMP protocol entity and for  
which the value of the error-status is  
'noSuchName.'"  
 ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is `badValue'."

::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is `genErr'."

::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity."

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 27 }



snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity."

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Indicates whether the SNMP agent process is permitted to generate authentication-failure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authentication-failure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant between re-initializations of the network management system."

::= { snmp 30 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB

No license file was found, but licenses were detected in source scan.

APM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

NOTIFICATION-TYPE,

Counter32, Unsigned32

FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, TimeStamp,  
TimeInterval, TruthValue, DateAndTime,  
StorageType FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP,  
NOTIFICATION-GROUP FROM SNMPv2-CONF  
SnmAdminString FROM SNMP-FRAMEWORK-MIB  
rmon, OwnerString FROM RMON-MIB  
protocolDirLocalIndex FROM RMON2-MIB;

-- Application Performance Measurement MIB

apm MODULE-IDENTITY

LAST-UPDATED "200402190000Z" -- February 19, 2004

ORGANIZATION "IETF RMON MIB Working Group"

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"

DESCRIPTION

"The MIB module for measuring application performance  
as experienced by end-users.

Copyright (C) The Internet Society (2004). This version of  
this MIB module is part of RFC 3729; see the RFC itself for  
full legal notices."

REVISION "200402190000Z" -- February 19, 2004

DESCRIPTION

"The original version of this MIB Module, published as  
RFC3729."

::= { rmon 23 }

apmMibObjects OBJECT IDENTIFIER ::= { apm 1 }

apmConformance OBJECT IDENTIFIER ::= { apm 2 }

apmCompliances

OBJECT IDENTIFIER ::= { apmConformance 1 }

apmGroups OBJECT IDENTIFIER ::= { apmConformance 2 }

AppLocalIndex ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A locally arbitrary unique identifier associated with an application or application verb.

All objects of type AppLocalIndex are assigned by the agent out of a common number space. In other words, AppLocalIndex values assigned to entries in one table must not overlap with AppLocalIndex values assigned to entries in another table. Further, every protocolDirLocalIndex value registered by the agent automatically assigns the same value out of the

AppLocalIndex number space.

For example, if the protocolDirLocalIndex values { 1, 3, 5, 7 } have been assigned, and the apmHttpFilterAppLocalIndex values { 6, 8, 9 } have been assigned:

- Assignment of new AppLocalIndex values must not use the values { 1, 3, 5, 6, 7, 8, 9 }.
- AppLocalIndex values { 1, 3, 5, 7 } are automatically assigned and are associated with the identical value of protocolDirLocalIndex. In particular, an entry in the apmAppDirTable indexed by a value provides further information about a protocol indexed by the same value in the protocolDirTable of RMON2.

The value for each supported application must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization, except that if an application is deleted and re-created, it must be re-created with a new value that has not been used since the last re-initialization.

The specific value is meaningful only within a given SNMP

entity. An AppLocalIndex value must not be re-used until the next agent restart."

SYNTAX Unsigned32  
(1..2147483647)

ProtocolDirNetworkAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"A network level address whose semantics and encoding are specified by an associated protocolDirLocalIndex value. Objects of this type must specify which protocolDirLocalIndex value is used. This value is encoded according to the encoding rules for the identified protocolDirectory entry.

For example, if the associated protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order.

Objects of this type may allow this value to be the zero length string. If so, they must identify they meaning of this value."

SYNTAX OCTET STRING (SIZE(0..255))

DataSourceOrZero ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Identifies the source of the data that the associated function is configured to analyze. This source can be any interface on this device.

In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in [4], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.

If the source of the data isn't an interface or cannot be localized to an interface, this object would be set to 0.0"

REFERENCE "The DataSource textual convention is defined in RFC 2021 [5]."

## SYNTAX OBJECT IDENTIFIER

RmonClientID ::= TEXTUAL-CONVENTION

STATUS current

### DESCRIPTION

"A long-lived unique ID assigned to an end-system. This ID is assigned by the agent using an implementation-specific algorithm.

Because a client machine may be assigned multiple addresses

over any time period it can be difficult to attribute behavior to a particular client based solely on its address. A ClientID may be assigned to provide a more stable handle for referencing that client. The entity that assigns the ClientID may use various implementation techniques to keep track of a client but if the assigning entity is unable to track client address mappings, it may map client identifiers to client addresses rather than to distinct client machines.

This is named ClientID because it helps to solve a problem seen in network clients (servers usually have well-known, long-lived addresses). However, ClientID's may be assigned to any end-system regardless of its role on the network."

SYNTAX Unsigned32 (0..4294967295)

TransactionAggregationType ::= TEXTUAL-CONVENTION

STATUS current

### DESCRIPTION

"Specifies one of 4 different techniques for aggregating transactions.

The metrics for a single transaction are the responsiveness of the transaction and whether the transaction succeeded (a boolean). When such metrics are aggregated in this MIB Module, these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the apmReportTable.

The flows(1) aggregation is the simplest. All transactions

that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The clients(2) aggregation results in somewhat more aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The servers(3) aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The applications(4) aggregation results in the most aggregation (i.e., the fewest resulting records). All transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as different applications have widely varying characteristics. As a result, this set of aggregations is complete."

```
SYNTAX  INTEGER {
    flows(1),  -- Least Aggregation
    clients(2),
    servers(3),
    applications(4) -- Most Aggregation
}
```

-- The APM Application Directory Group

-- The Application Directory Table contains a record for every

-- application monitored by this agent. This table is also used to  
-- configure whether or not an application will be measured and which  
-- bucket boundaries will be used for the application.

--

-- The bucket boundaries define the break-points between bins of a  
-- histogram analysis for that application. As an example of how this  
-- works, consider an entry representing response-time for http.

-- If the boundaries are set as follows:

-- Boundary 1: 500 milliseconds

```

-- Boundary2: 1 second
-- Boundary3: 2 seconds
-- Boundary4: 5
-- Boundary5: 15
-- Boundary6: 60
--
-- If the following measurements are made (all in milliseconds):
-- 377, 8645, 1300, 487, 1405, 775, 1115, 850, 945, 1054, 7745, 9380
--
-- A report run during this interval would report the following
-- counts:
-- Bucket1: 2
-- Bucket2: 3
-- Bucket3: 4
-- Bucket4: 0
-- Bucket5: 3
-- Bucket6: 0
--
Bucket7: 0

```

#### apmAppDirTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmAppDirEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The APM MIB directory of applications and application verbs. The agent will populate this table with all applications/verbs of any responsivenessType it has the capability to monitor. Since the agent populates this table with every entry it has the capability to monitor, the entries in this table are read-write, allowing the management station to modify parameters in this table but not to add new entries or delete entries (however, entries may be disabled). If new entries are added to the apmHttpFilterTable or the apmUserDefinedAppTable, the agent will add the corresponding entries to this table.

It is an implementation-dependent matter as to how the agent sets these default parameters. For example, it may leave certain entries in this table 'off(0)' if the agent developer

believes that combination will be infrequently used, allowing a manager that needs that capability to set it to 'on(1)'.

Some applications are registered in the RMON2 protocol

directory and some are registered in other tables in this MIB Module. Regardless of where an application is originally registered, it is assigned an AppLocalIndex value that is the primary index for this table.

The contents of this table affect all reports and exceptions generated by this agent. Accordingly, modification of this table should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this table - it should reflect the preferences of the site administrator, not the software author. As a practical matter, this requires management

software to allow the administrator to configure the values it will use so that it can be adapted to the site policy."

```
::= { apmMibObjects 1 }
```

apmAppDirEntry OBJECT-TYPE

SYNTAX ApmAppDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The APM MIB directory of applications and application verbs. An entry will exist in this table for all applications for which application performance measurement is supported."

INDEX { apmAppDirAppLocalIndex,  
apmAppDirResponsivenessType }

```
::= { apmAppDirTable 1 }
```

ApmAppDirEntry ::= SEQUENCE {

apmAppDirAppLocalIndex AppLocalIndex,

apmAppDirResponsivenessType INTEGER,

apmAppDirConfig INTEGER,

apmAppDirResponsivenessBoundary1 Unsigned32,

apmAppDirResponsivenessBoundary2 Unsigned32,

apmAppDirResponsivenessBoundary3 Unsigned32,

apmAppDirResponsivenessBoundary4 Unsigned32,

apmAppDirResponsivenessBoundary5

Unsigned32,

apmAppDirResponsivenessBoundary6 Unsigned32

}

apmAppDirAppLocalIndex OBJECT-TYPE

SYNTAX AppLocalIndex

MAX-ACCESS not-accessible



STATUS current

DESCRIPTION

"The AppLocalIndex assigned for this application Directory entry."

::= { apmAppDirEntry 1 }

apmAppDirResponsivenessType OBJECT-TYPE

SYNTAX INTEGER {  
    transactionOriented(1),  
    throughputOriented(2),  
    streamingOriented(3)  
}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object describes and configures the agent's support for application performance measurement for this application. There are 3 types of measurements for different types of applications:

Transaction-Oriented applications have a fairly constant workload to perform for all transactions. The responsiveness metric for transaction-oriented

applications is application

response time (from first request to final delivery of service) and is measured in milliseconds. This is commonly referred to as end-user response time.

Throughput-Oriented applications have widely varying workloads based on the nature of the client request. In particular, throughput-oriented applications vary widely in the amount of data that must be transported to satisfy the request. The responsiveness metric for throughput-oriented applications is kilobits per second.

Streaming-Oriented applications deliver data at a constant metered rate of speed regardless of the responsiveness of the networking and computing infrastructure. This constant rate of speed is generally specified to be below (sometimes well below) the nominal capability of the infrastructure. However, when the infrastructures cannot deliver data at this speed, interruption of service or degradation of service can result. The responsiveness metric for streaming-oriented applications is the ratio of time that the service is degraded or interrupted to the total service time. This metric is measured in parts per million.

Note that for some applications, measuring more than one responsiveness type may be interesting. For agents that wish

to support more than one measurement for a application, they will populate this table with multiple entries for that application, one for each type."

::= { apmAppDirEntry 2 }

apmAppDirConfig OBJECT-TYPE

SYNTAX INTEGER {  
    off(1),  
    on(2)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object describes and configures support for application performance measurement for this application.

If the value of this object is on(2),

the agent supports

measurement of application performance metrics for this application and is configured to measure such metrics for all APM MIB functions and all interfaces. If the value of this object is off(1), the agent supports measurement of application performance for this application but is configured to not measure these metrics for any APM MIB functions or interfaces. Whenever this value changes from on(2) to off(1), the agent shall delete all related entries in all tables in this MIB Module.

The value of this object must persist across reboots."

::= { apmAppDirEntry 3 }

apmAppDirResponsivenessBoundary1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boundary value between bucket1 and bucket 2. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value

of this object must persist across reboots."

::= { apmAppDirEntry 4 }

apmAppDirResponsivenessBoundary2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boundary value between bucket2 and bucket 3. If this

value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 5 }

apmAppDirResponsivenessBoundary3 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boundary value between bucket3 and bucket 4. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 6 }

apmAppDirResponsivenessBoundary4 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boundary value between bucket4 and bucket 5. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."

::= { apmAppDirEntry 7 }

apmAppDirResponsivenessBoundary5 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The boundary value between bucket5 and bucket 6. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."  
 ::= { apmAppDirEntry 8 }

apmAppDirResponsivenessBoundary6 OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The boundary value between bucket6 and bucket 7. If this

value is modified, all entries in the apmReportTable must be  
deleted by the agent.

The value of  
this object must persist across reboots."  
 ::= { apmAppDirEntry 9 }

-- Scalars related to the Application Directory table

apmBucketBoundaryLastChange OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime the last time that any bucket boundary  
in any appDirEntry was changed. This object can help to  
determine if two managers are both trying to enforce different  
configurations of this table."

::= { apmMibObjects 2 }

apmAppDirID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"This object allows managers to avoid downloading application  
directory information when the directory is set to a known  
(usually fixed) configuration.

If the value of this object isn't 0.0, it signifies  
that the entire contents of the apmAppDirTable,  
apmHttpFilterTable, apmUserDefinedAppTable and  
protocolDirTable are equal to a known state identified  
by the value of this object. If a manager recognizes this  
value as identifying a directory configuration it has a local

copy of, it may use this local copy rather than downloading these tables. Note that it may have downloaded this local copy (and the ID) from another agent and used this copy for all other agents that advertised the same ID.

If an agent recognizes that the entire contents of the `apmAppDirTable`, `apmHttpFilterTable`, `apmUserDefinedAppTable` and `protocolDirTable` are equal to a known state to which an ID has been assigned, it should set this object to that ID.

In many cases when this feature is used, the application directory information will be in read-only memory and thus the tables may not be modified via SNMP requests. In the event

that the tables are writable and a modification is made, the agent is responsible for setting this object to 0.0 if it cannot determine that the state is equal to a known state.

An agent is not obligated to recognize and advertise all such registered states as it may not have knowledge of all states. Thus, a manager may encounter agents whose `DirectoryID` value is 0.0 even though the contents of the directory were equal to a registered state.

Note that the contents of those tables includes the `protocolDirLocalIndex` and `appLocalIndex` values. In other words, these values can't be assigned randomly on each agent, but must be equal to values that are part of the known state. While it is possible for a manager to download application directory details using SNMP and to set the appropriate `directoryID`, the manager would need to have some scheme to ensure consistent values of `LocalIndex` variables from agent to agent.

Such schemes are outside the scope of this specification.

Application directory registrations are unique within an administrative domain.

Typically these registrations will be made by an agent software developer who will set the application directory tables to a read-only state and assign a `DirectoryID` to that state. Thus, all agents running this software would share the same `DirectoryID`. As the application directory might change

from one software release to the next, the developer may register different DirectoryID's for each software release.

A customer could also create a site-wide application directory configuration and assign a DirectoryID to that configuration as long as consistent values of LocalIndex variables can be ensured.

The value of this object must persist across reboots."

```
::= { apmMibObjects 3 }
```

-- APM HTTP Filter Table

-- The HTTP Filter Table

creates virtual applications which measure the

-- performance of certain web pages or sets of web pages. Some

-- circumstances where this is particularly useful are:

--

-- - An Intranet or ASP scenario where a business application is  
-- running on one or more web pages or scripts.

-- (i.e., /expense/submit.cgi?employeeID=3426&...)

-- - A web-hosting scenario where one wants to measure the  
-- service level for a particular customer

-- - An e-commerce scenario where the performance of certain  
-- pages needs to be monitored more closely.

-- (i.e., shopping cart, shipping, credit card authorization)

apmHttpFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmHttpFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table that creates virtual applications which measure the performance of certain web pages or sets of web pages.

When an entry is added to this table, the agent will

automatically create one or more entries in the apmAppDirTable (one for each responsivenessType it is capable of measuring).

Note that when entries exist in this table some HTTP transactions will be summarized twice: in applications represented here as well as the HTTP application. If entries in this table overlap, these transactions may be summarized

additional times.

The contents of this table affect all reports and exceptions generated by this agent. Accordingly, modification of this table should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this table - it should reflect the preferences of the site administrator, not the software author."

::= { apmMibObjects 4 }

apmHttpFilterEntry OBJECT-TYPE

SYNTAX ApmHttpFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A virtual application which measure the performance of certain web pages or sets of web pages."

INDEX { apmHttpFilterIndex }

::= { apmHttpFilterTable 1 }

ApmHttpFilterEntry ::= SEQUENCE {

apmHttpFilterIndex Unsigned32,

apmHttpFilterAppLocalIndex AppLocalIndex,

apmHttpFilterServerProtocol Unsigned32,

apmHttpFilterServerAddress ProtocolDirNetworkAddress,

apmHttpFilterURLPath OCTET STRING,

apmHttpFilterMatchType INTEGER,

apmHttpFilterOwner OwnerString,

apmHttpFilterStorageType StorageType,

apmHttpFilterRowStatus RowStatus

}

apmHttpFilterIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the apmHttpFilterTable."

::= { apmHttpFilterEntry 1 }

apmHttpFilterAppLocalIndex

OBJECT-TYPE

SYNTAX AppLocalIndex

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The AppLocalIndex that represents HTTP transactions that match this entry.

This object is read-only. A value is created by the agent from an unused AppLocalIndex value when this apmHttpFilterEntry is created."

::= { apmHttpFilterEntry 2 }

apmHttpFilterServerProtocol OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The protocolDirLocalIndex value of the network level protocol of the apmHttpFilterServerAddress."

::= { apmHttpFilterEntry 3 }

apmHttpFilterServerAddress OBJECT-TYPE

SYNTAX ProtocolDirNetworkAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This entry will only represent transactions coming from the network address specified in this object.

This is represented as an octet string with specific semantics and length as identified by the associated apmHttpFilterServerProtocol object.

If this object is the zero-length string, then this entry will match one of the addresses represented by the 'host' component of the associated apmHttpFilterURLPath object, where the format if a URL [9] is

http://<host>:<port>/<path>?<searchpart>."

::= { apmHttpFilterEntry 4 }

apmHttpFilterURLPath OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..65535))

MAX-ACCESS read-create

STATUS current

DESCRIPTION



"This entry will only represent HTTP transactions where the URL path component in the request matches this value. This value represents the requested path regardless of any substitution that the server might perform.

Prior to the matching, the URL is stripped of any server address or DNS name and consists solely of the path name on that server.

If the length of this object is zero, then this entry will match if the associated `apmHttpFilterServerAddress` match. If the length of that object is also zero, then this entry will match nothing.

The value of the associated `apmHttpFilterMatchType` dictates the type of matching that will be attempted."

```
::= { apmHttpFilterEntry 5 }
```

`apmHttpFilterMatchType` OBJECT-TYPE

```
SYNTAX    INTEGER {  
            exact(1),  
            stripTrailingSlash(2),  
            prefix(3)  
        }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The matching algorithm used to compare the URL pathname.

If the value is `exact(1)`, then the pathname component will be compared with the associated `apmHttpFilterURLPath` and will only be associated with this entry if it matches exactly.

If the value is `stripTrailingSlash(2)`, then the pathname

component will be compared with the associated `apmHttpFilterURLPath` and will only be associated with this entry if it matches exactly or if the pathname ends with a '/' symbol and matches `apmHttpFilterURLPath` if the '/' symbol is removed from the pathname. This option exists for those paths where an optional trailing slash is possible but for which a prefix match would be too broad.

If the value is `prefix(3)`, then the pathname component will be compared with the associated `apmHttpFilterURLPath` and will

only be associated with this entry if the beginning of the pathname matches every octet of this value. Octets that extend beyond the length of this value are ignored."

::= { apmHttpFilterEntry 6 }

#### apmHttpFilterOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { apmHttpFilterEntry 7 }

#### apmHttpFilterStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The storage type of this apmHttpFilterEntry. If the value of this object is 'permanent', no objects in this row need to be writable."

::= { apmHttpFilterEntry 8 }

#### apmHttpFilterRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The status of this apmHttpFilterEntry. No objects in this row may be modified while the row's status is 'active'."

::= { apmHttpFilterEntry 9 }

#### apmHttpIgnoreUnregisteredURLs OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"When true, APM measurements of HTTP transactions will only measure transactions relating to URLs that match a filter in the apmHttpFilterTable. Thus, measurements for the HTTP application will present aggregated statistics for URL-matching HTTP transactions and measurements for the HTTP

GET application verb will present aggregated statistics for URL-matching HTTP GET transactions.

This will be used in environments that wish to monitor only targeted URLs and to ignore large volumes of internet web browsing traffic.

This object affects all APM reports and exceptions generated by this agent. Accordingly, modification of this object should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this object - it should reflect the preferences of the site administrator, not the software author.

The value of this object must persist across reboots."

```
::= { apmMibObjects 5 }
```

#### apmHttp4xxIsFailure OBJECT-TYPE

##### SYNTAX

TruthValue

MAX-ACCESS read-write

STATUS current

##### DESCRIPTION

"When true, this agent will recognize HTTP errors in the range of 400 through 499 and will treat them as unavailable transactions. When false or when this object isn't supported, they will be treated as successful transactions.

This object allows such error pages to be tracked at the possible expense of having user typos treated as poor service on the part of the web server.

This object affects all reports and exceptions generated by this agent. Accordingly, modification of this object should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this object - it should reflect the preferences of the site administrator, not the software author.

The value of this object must persist across reboots."

```
::= { apmMibObjects 6 }
```

-- The APM User-Defined Application Table

-- Many application protocols will never be registered with a  
-- standards body (and thus included in a protocol directory standard)  
-- because they are custom, in-house or proprietary  
-- applications. Nevertheless, implementation strategies exist for  
-- monitoring the end-user experience of these applications.  
--  
-- This read-only table provides a means for the agent to advertise  
-- which user-defined applications it is monitoring and to associate  
-- each with an AppLocalIndex value. It is an implementation-dependent  
-- matter as to how the agent learns how to monitor these  
-- applications.

#### apmUserDefinedAppTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmUserDefinedAppEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"A table that advertises user-defined applications that the agent is measuring.

The agent will automatically create one or more entries in the apmAppDirTable (one for each responsivenessType it is capable of measuring) for each entry in this table.

Note that when entries exist in this table some transactions can be summarized more than once if there is overlap between applications defined here and applications defined in the protocol directory or in the httpFilter table."

::= { apmMibObjects 7 }

#### apmUserDefinedAppEntry OBJECT-TYPE

SYNTAX ApmUserDefinedAppEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"A user-defined application that the agent is measuring, along with its AppLocalIndex assignment.

The apmAppDirAppLocalIndex value in the index identifies the agent-assigned AppLocalIndex value for this user-defined application."

INDEX { apmAppDirAppLocalIndex }

::= { apmUserDefinedAppTable 1 }

ApmUserDefinedAppEntry ::= SEQUENCE {  
apmUserDefinedAppParentIndex Unsigned32,

```
    apmUserDefinedAppApplication SnmpAdminString
}
```

```
apmUserDefinedAppParentIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The protocolDirLocalIndex value of the highest-layer
        protocol defined in the protocolDirTable that this
        application is a child of."
    ::= { apmUserDefinedAppEntry 1 }
```

```
apmUserDefinedAppApplication OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A human readable descriptive tag for this application."
    ::= { apmUserDefinedAppEntry 2 }
```

-- The APM Name Table

```
apmNameTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF ApmNameEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A client machine may have multiple addresses during a period
        of monitoring. The apmNameTable assigns a long-lived
        identifier to a client and records what addresses
```

were

assigned to that client for periods of time. Various implementation techniques exist for tracking this mapping but if an agent is unable to track client address mappings, it may map client identifiers to client addresses rather than to distinct client machines.

A particular apmNameClientID should be a constant attribute of a particular client. When available, the agent may also record the machine name and/or user name which may be valuable for displaying to humans. The apmNameMachineName and apmNameUserName are relatively constant, changing only if these attributes actually change on the client.

The agent will store a historical log of these entries, aging out old entries as the log becomes too large. Since this table contains information vital to the interpretation of other tables (e.g., the `apmReportTable`), the agent should ensure that

the log doesn't age out entries that would be referenced by data in those tables.

Note that an entry for a `clientID` is active from its `StartTime` until the `StartTime` of another entry (for the same `clientID`) that supersedes it, or 'now' if none supersedes it. Therefore, if a `clientID` only has a single entry, it is by definition very new and should never be aged out. No entry for a `clientID` should be aged out unless it has been updated by a new entry for the client (i.e., with an updated address) and only if the new entry is 'old' enough.

To determine how old is old enough, compute the maximum value of `Interval * (NumReports + 1)` of all entries in the `apmReportControlTable` (the '+ 1' is to allow a reasonable period of time for the report to be downloaded). Then take the larger of this value and the age in seconds of the oldest entry in the current transaction table. If an entry for

a `clientID` is superseded by another entry whose `StartTime` is more than this many seconds ago, then the older entry may be deleted."

```
::= { apmMibObjects 8 }
```

`apmNameEntry` OBJECT-TYPE

SYNTAX `ApmNameEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the APM name table. An entry exists for each period of time that a client has been associated with a particular address.

The `protocolDirLocalIndex` value in the index identifies the network layer protocol for the `ClientAddress` for this entry.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

```
INDEX { apmNameClientID,  
        protocolDirLocalIndex, apmNameClientAddress,  
        apmNameMappingStartTime }
```

```
::=
```

```
{ apmNameTable 1 }
```

```
ApmNameEntry ::= SEQUENCE {
```

```
    apmNameClientID          RmonClientID,  
    apmNameClientAddress     ProtocolDirNetworkAddress,
```

```
    apmNameMappingStartTime  DateAndTime,  
    apmNameMachineName       SnmpAdminString,  
    apmNameUserName          SnmpAdminString
```

```
}
```

```
apmNameClientID OBJECT-TYPE
```

```
SYNTAX      RmonClientID
```

```
MAX-ACCESS not-accessible
```

```
STATUS      current
```

```
DESCRIPTION
```

"A unique ID assigned to the machine represented by this mapping. This ID is assigned by the agent using an implementation-specific algorithm."

```
::= { apmNameEntry 1 }
```

```
apmNameClientAddress OBJECT-TYPE
```

```
SYNTAX      ProtocolDirNetworkAddress (SIZE(1..255))
```

```
MAX-ACCESS not-accessible
```

```
STATUS      current
```

```
DESCRIPTION
```

"The network client address for this client when this mapping was active.

This is represented as an octet string with specific semantics and length as

identified by the protocolDirLocalIndex

component of the index. This object may not be the zero length string.

Since this object is an index variable, it is encoded in the index according to the index encoding rules. For example, if the protocolDirLocalIndex component of the index indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order. Care should be taken to avoid values of this

object that, in conjunction with the other index variables,  
would result in an index longer than SNMP's maximum of 128  
subidentifiers."

::= { apmNameEntry 2 }

#### apmNameMappingStartTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The time that the agent first discovered this mapping  
as active."

::= { apmNameEntry 3 }

#### apmNameMachineName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The human readable name of the client machine.

If the client has no machine name or the agent is  
unable to learn the machine name, this object will be  
a zero-length string."

::= { apmNameEntry 4 }

#### apmNameUserName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The human readable name of a human user using the client  
machine. If more than one user name are available  
simultaneously, it is an implementation-dependent matter as to  
which is used here. However, if the user name changes, this  
object should change to reflect that change.

Non-human user names like 'root' or 'administrator' aren't  
intended as values for this object. If the client has no  
recorded user name or the agent is unable to learn a user  
name, this

object will be a zero-length string."

::= { apmNameEntry 5 }

-- The APM Report Group



apmReportControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmReportControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Parameters that control the creation of a set of reports that aggregate application performance."

::= { apmMibObjects 9 }

apmReportControlEntry OBJECT-TYPE

SYNTAX ApmReportControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmReportControlTable.

An example of the indexing of this table is

apmReportControlInterval.3"

INDEX { apmReportControlIndex }

::= { apmReportControlTable 1 }

ApmReportControlEntry ::= SEQUENCE {

apmReportControlIndex Unsigned32,

apmReportControlDataSource DataSourceOrZero,

apmReportControlAggregationType TransactionAggregationType,

apmReportControlInterval

Unsigned32,

apmReportControlRequestedSize Unsigned32,

apmReportControlGrantedSize Unsigned32,

apmReportControlRequestedReports Unsigned32,

apmReportControlGrantedReports Unsigned32,

apmReportControlStartTime TimeStamp,

apmReportControlReportNumber Unsigned32,

apmReportControlDeniedInserts Counter32,

apmReportControlDroppedFrames Counter32,

apmReportControlOwner OwnerString,

apmReportControlStorageType StorageType,

apmReportControlStatus RowStatus

}

apmReportControlIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the apmReportControlTable. Each such entry defines a unique report whose results are placed in the apmReportTable on behalf of this apmReportControlEntry."

::= { apmReportControlEntry 1 }

apmReportControlDataSource OBJECT-TYPE

SYNTAX DataSourceOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of the data for APM Reports generated on behalf of this apmReportControlEntry.

If the measurement is being performed by a probe, this should be set to interface or port where data was received for analysis. If the measurement isn't being performed by a probe, this should be set to the primary interface over which the measurement is being performed. If the measurement isn't being performed by a probe and there is no primary interface or this

information isn't known, this object should be set to 0.0.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."

::= { apmReportControlEntry 2 }

apmReportControlAggregationType OBJECT-TYPE

SYNTAX TransactionAggregationType

```
-- INTEGER {  
-- flows(1),  
-- clients(2),  
-- servers(3),  
-- applications(4)  
-- }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of aggregation being performed for this set of reports.

The metrics for a single transaction are the responsiveness of the transaction and whether the transaction succeeded (a boolean). When such metrics are aggregated in this MIB Module,

these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the `apmReportTable`.

The `flows(1)` aggregation is the simplest. All transactions that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The `clients(2)` aggregation results in somewhat more aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The `servers(3)` aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The `applications(4)` aggregation results in the most aggregation (i.e., the fewest resulting records). All

transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as different applications have widely varying characteristics.

As

a result, this set of aggregations is complete.

This object may not be modified if the associated `apmReportControlStatus` object is equal to `active(1)`.

```
::= { apmReportControlEntry 3 }
```

`apmReportControlInterval` OBJECT-TYPE

SYNTAX Unsigned32

UNITS "Seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interval in seconds over which data is accumulated before

being aggregated into a report in the apmReportTable. All reports with the same apmReportControlIndex will be based on the same interval. This object must be greater than zero.

Many users desire that these reports be synchronized to within seconds of the beginning of the hour because the results may be correlated more meaningfully to business behavior and so that data from multiple agents is aggregated over the same time periods. Thus management software may take extra effort to synchronize

reports to the beginning of the hour and to one another. However, the agent must not allow reports to 'drift' over time as they will quickly become unsynchronized. In particular, if there is any fixed processing delay between reports, the reports should deduct this time from the interval so that reports don't drift.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."

DEFVAL { 3600 }

::= { apmReportControlEntry 4 }

apmReportControlRequestedSize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of entries requested to be allocated for each report generated on behalf of this entry."

::= { apmReportControlEntry 5 }

apmReportControlGrantedSize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of entries per report the agent has allocated based on the requested amount in apmReportControlRequestedSize. Since multiple reports are saved, the total number of entries allocated will be this number multiplied by the value of apmReportControlGrantedReports, or 1 if that object doesn't exist.

When the associated apmReportControlRequestedSize object is created or modified, the agent should set this object as

closely to the requested value as is possible for the particular implementation and available resources. When considering resources available, the agent must consider its ability to allocate this many entries for all reports.

Note that while the actual number of entries stored in the reports may fluctuate due to changing conditions, the agent must continue to have storage available to satisfy the full report size for all reports when necessary. Further, the agent must

not lower this value except as a result of a set to the associated `apmReportControlRequestedSize` object."

```
::= { apmReportControlEntry 6 }
```

`apmReportControlRequestedReports` OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of saved reports requested to be allocated on behalf of this entry."

```
::= { apmReportControlEntry 7 }
```

`apmReportControlGrantedReports` OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of saved reports the agent has allocated based on the requested amount in `apmReportControlRequestedReports`. Since each report can have many entries, the total number of entries allocated will be this number multiplied by the value of `apmReportControlGrantedSize`, or 1 if that object doesn't exist.

When the associated `apmReportControlRequestedReports` object is

created or modified, the agent should set this object as closely to the requested value as is possible for the particular implementation and available resources. When considering resources available, the agent must consider its ability to allocate this many reports each with the number of entries represented by `apmReportControlGrantedSize`, or 1 if that object doesn't exist.

Note that while the storage required for each report may fluctuate due to changing conditions, the agent must continue to have storage available to satisfy the full report size for all reports when necessary. Further, the agent must not lower this value except as a result of a set to the associated apmReportControlRequestedSize object."

::= { apmReportControlEntry 8 }

apmReportControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when the system began processing the report in progress. Note that the report in progress is not available.

This object may be used by the management station to figure out the start time for all previous reports saved for this apmReportControlEntry, as reports are started at fixed intervals."

::= { apmReportControlEntry 9 }

apmReportControlReportNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of the report in progress. When an apmReportControlEntry is activated, the first report will be numbered one."

::= { apmReportControlEntry 10 }

apmReportControlDeniedInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of failed attempts to add an entry to reports for

this apmReportControlEntry because the number of entries would have exceeded apmReportControlGrantedSize.

This number is valuable in determining if enough entries have

been allocated for reports in light of fluctuating network usage. Note that since an entry that is denied will often be attempted again, this number will not predict the exact number of additional entries needed, but can be used to understand the relative magnitude of the problem.

Also note that there is no ordering specified for the entries in the report, thus there are no rules for which entries will be omitted when not enough entries are available. As a consequence, the agent is not required to delete 'least valuable' entries first."

```
::= { apmReportControlEntry 11 }
```

#### apmReportControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The total number of frames which were received by the agent and therefore not accounted for in the \*StatsDropEvents, but for which the agent chose not to count for this entry for whatever reason. Most often, this event occurs when the agent is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

This counter is only relevant if this apm report is based on a data source whose collection methodology is based on analyzing network traffic.

Note that if the apmReportTables are inactive because no applications are enabled in the application directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { apmReportControlEntry 12 }
```

#### apmReportControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { apmReportControlEntry 13 }

apmReportControlStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type of this apmReportControlEntry. If the value of this object is 'permanent', no objects in this row need to be writable."

::= { apmReportControlEntry 14 }

apmReportControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this apmReportControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value. The only objects in the entry that may be modified while the entry is in the active state are apmReportControlRequestedSize and apmReportControlRequestedReports.

If this object is not equal to active(1), all associated entries in the apmReportTable shall be deleted by the agent."

::= { apmReportControlEntry 15 }

-- The APM Report Table

apmReportTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmReportEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The data resulting from aggregated APM reports. Consult the definition of apmReportControlAggregationType for the definition of the various types of aggregations."

::= { apmMibObjects 10 }

apmReportEntry OBJECT-TYPE

SYNTAX ApmReportEntry



MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmReportTable.

The apmReportControlIndex value in the index identifies the apmReportControlEntry on whose behalf this entry was created.

The apmReportIndex value in the index identifies which report (in the series of reports) this

entry is a part of.

The apmAppDirAppLocalIndex value in the index identifies the common application of the transactions aggregated in this entry.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric reported by this entry and uniquely identifies this entry when more than one responsiveness metric is measured for a flow.

Entries will only exist in this table for those combinations of AppLocalIndex and ResponsivenessType that are configured 'on(1)'.

The protocolDirLocalIndex value in the index identifies the network layer protocol of the apmReportServerAddress.

When the associated apmReportControlAggregationType value is equal to applications(4) or clients(2), this protocolDirLocalIndex value will equal 0.

The apmReportServerAddress value in the index identifies the network layer address of the server in transactions

aggregated

in this entry.

The apmNameClientID value in the index identifies the client in transactions aggregated in this entry. If the associated apmReportControlAggregationType is equal to applications(4) or servers(3), then this protocolDirLocalIndex value will equal 0.

An example of the indexing of this entry is

apmReportTransactionCount.3.15.3.1.8.4.192.168.1.2.3232235788

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { apmReportControlIndex, apmReportIndex,  
apmAppDirAppLocalIndex,  
apmAppDirResponsivenessType,  
protocolDirLocalIndex, apmReportServerAddress,

```
    apmNameClientID }
 ::= { apmReportTable 1 }
```

```
ApmReportEntry ::= SEQUENCE {
    apmReportIndex
        Unsigned32,
    apmReportServerAddress    ProtocolDirNetworkAddress,

    apmReportTransactionCount    Unsigned32,
    apmReportSuccessfulTransactions Unsigned32,
    apmReportResponsivenessMean   Unsigned32,
    apmReportResponsivenessMin    Unsigned32,
    apmReportResponsivenessMax    Unsigned32,
    apmReportResponsivenessB1     Unsigned32,
    apmReportResponsivenessB2     Unsigned32,
    apmReportResponsivenessB3     Unsigned32,
    apmReportResponsivenessB4     Unsigned32,
    apmReportResponsivenessB5     Unsigned32,
    apmReportResponsivenessB6     Unsigned32,
    apmReportResponsivenessB7     Unsigned32
}
```

apmReportIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value of apmReportControlReportNumber for the report to which this entry belongs."

```
::= { apmReportEntry 1 }
```

apmReportServerAddress OBJECT-TYPE

SYNTAX

ProtocolDirNetworkAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network server address for this apmReportEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

Since this object is an index variable, it is encoded in the index according to the index encoding rules. For example, if the protocolDirLocalIndex indicates an encapsulation of ip,

this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order. Care should be taken to avoid values of this object that, in conjunction with the other index variables, would result in an index longer than SNMP's maximum of 128 subidentifiers.

If the associated `apmReportControlAggregationType` is equal to `applications(4)` or `clients(2)`, then this object will be a null string and will be encoded simply as a length octet of 0."  
 ::= { apmReportEntry 2 }

#### `apmReportTransactionCount` OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of transactions aggregated into this record."

::= { apmReportEntry 3 }

#### `apmReportSuccessfulTransactions` OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of successful transactions aggregated into this record."

::= { apmReportEntry 4 }

#### `apmReportResponsivenessMean` OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The arithmetic mean of the responsiveness metrics for all successful transactions aggregated into this record."

::= { apmReportEntry 5 }

#### `apmReportResponsivenessMin` OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The minimum of the responsiveness metrics for all

successful transactions aggregated into this record."  
::= { apmReportEntry 6 }

apmReportResponsivenessMax OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum of the responsiveness metrics for all  
successful transactions aggregated into this record."

::= { apmReportEntry 7 }

-- Note that when updating a report entry, a transaction will not be  
-- counted in more than 1 bucket in an entry. It will be counted in  
-- the first bucket that matches, starting with Bucket 1 (B1). Note  
-- that if a transaction matches 2 application types, it will update

-- one bucket in each of 2 entries in this table.

apmReportResponsivenessB1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this  
record

whose responsiveness was less than boundary1 value for  
this application."

::= { apmReportEntry 8 }

apmReportResponsivenessB2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this  
record whose responsiveness did not fall into Bucket 1 and was  
greater than or equal to the boundary1 value for this  
application and less than the boundary2 value for this  
application."

::= { apmReportEntry 9 }

apmReportResponsivenessB3 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Bucket 1 or 2 and as greater than or equal to the boundary2 value for this application and less than the boundary3 value for this application."

```
::= { apmReportEntry  
10 }
```

#### apmReportResponsivenessB4 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 3 and was greater than or equal to the boundary3 value for this application and less than the boundary4 value for this application."

```
::= { apmReportEntry 11 }
```

#### apmReportResponsivenessB5 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 4 and was greater than or equal to the boundary4 value for this application and less than the boundary5 value for this application."

```
::= { apmReportEntry 12 }
```

#### apmReportResponsivenessB6 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 5 and was greater than or equal to the boundary5 value for this application and less than the boundary6 value for this application."

```
::= { apmReportEntry 13 }
```

apmReportResponsivenessB7 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of successful transactions aggregated into this record whose responsiveness did not fall into Buckets 1 through 6 and was greater than or equal to the boundary6 value for this application."

::= { apmReportEntry 14 }

-- APM Transaction Table

apmTransactionTable OBJECT-TYPE

SYNTAX SEQUENCE OF ApmTransactionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains transactions that are currently running or have recently finished."

::= { apmMibObjects 11 }

apmTransactionEntry OBJECT-TYPE

SYNTAX ApmTransactionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmTransactionTable.

The apmAppDirAppLocalIndex value in the index identifies the application of the transaction represented by this entry.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric reported by this entry and uniquely identifies this entry when more than one responsiveness metric is measured for a flow.

Entries will only exist in this table for those combinations of AppLocalIndex and ResponsivenessType that are configured 'on(1)'.  
The protocolDirLocalIndex value in the index identifies the network layer protocol of the apmTransactionServerAddress.

The apmTransactionServerAddress value in the index identifies the network layer address of the server in the transaction represented by this entry.

The apmNameClientID value in the index identifies the client in the transaction represented by this entry.

An example of the indexing of this entry is  
apmTransactionCount.3.1.8.4.192.168.1.2.3232235788.2987

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { apmAppDirAppLocalIndex,  
        apmAppDirResponsivenessType,  
        protocolDirLocalIndex, apmTransactionServerAddress,  
        apmNameClientID, apmTransactionID }  
 ::= { apmTransactionTable 1 }
```

```
ApmTransactionEntry ::= SEQUENCE {  
    apmTransactionServerAddress ProtocolDirNetworkAddress,  
    apmTransactionID  
    Unsigned32,  
    apmTransactionResponsiveness Unsigned32,  
    apmTransactionAge TimeInterval,  
    apmTransactionSuccess TruthValue  
}
```

```
apmTransactionServerAddress OBJECT-TYPE  
SYNTAX ProtocolDirNetworkAddress (SIZE (1..255))  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

"The network server address for this apmTransactionEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index. This object may not be the zero length string.

For example, if the protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the ip address, in network byte order. Care should be taken to avoid values of this object that, in conjunction with the other index variables, would result in an index longer than

SNMP's maximum of 128 subidentifiers."

::= { apmTransactionEntry 1 }

apmTransactionID OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique value for this transaction amongst other transactions sharing the same application layer protocol and server and client addresses. Implementations may choose to use the value of the client's source port, when possible."

::= { apmTransactionEntry 2 }

apmTransactionResponsiveness OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current value of the responsiveness metric for this transaction. If this transaction has completed, the final value of the metric will be available.

Note that this value may change over the lifetime of the transaction and it is the final value of this metric that is recorded as the responsiveness

of the transaction for use in

other APM MIB functions."

::= { apmTransactionEntry 3 }

apmTransactionAge OBJECT-TYPE

SYNTAX TimeInterval

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If this transaction is still executing, this value shall be

the length of time since it was started. If it has completed, this value shall be the length of time it was executing."

::= { apmTransactionEntry 4 }

apmTransactionSuccess OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The success of this transaction up to this time. Once a



transaction has been marked as failed, it cannot move back into the successful state."

```
::= { apmTransactionEntry 5 }
```

apmTransactionsRequestedHistorySize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of completed transactions desired to be retained in the apmTransactionTable. If the agent doesn't have enough resources to retain this many, it will retain as many as possible. Regardless of this value, the agent must attempt to keep records for all current transactions it is monitoring.

The value of this object must persist across reboots."

```
::= { apmMibObjects 12 }
```

-- The APM Exception table

-- The APM Exception Table creates filters so that a management station can get immediate notification of a transaction that has had poor availability or responsiveness.

--

-- This function is particularly helpful in unaggregated situations where the numbers of agents is relatively high and the transaction rate per agent is relatively low (such as agents for desktops or dedicated to small workgroups). Polling agents in such an environment would either cause scalability problems (high rate) or lead to long notification delays (low rate).

apmExceptionTable

OBJECT-TYPE

SYNTAX SEQUENCE OF ApmExceptionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table creates filters so that a management station can get immediate notification of a transaction that has had poor

availability or responsiveness.

Each apmExceptionEntry is associated with a particular type of transaction and is applied to all transactions of that type. Multiple apmExceptionEntries may be associated with a

particular type of transaction. A transaction type is identified by the value of the apmAppDirAppLocalIndex component of the index.

Because the quality of a transaction is not known until it is completed, these thresholds are only applied after the transaction has completed."

::= { apmMibObjects 13 }

apmExceptionEntry OBJECT-TYPE

SYNTAX ApmExceptionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the apmExceptionTable.

The apmAppDirAppLocalIndex value in the index identifies the application this entry will monitor.

The apmAppDirResponsivenessType value in the index identifies the type of responsiveness metric this entry will monitor."

INDEX { apmAppDirAppLocalIndex,  
apmAppDirResponsivenessType, apmExceptionIndex }

::= { apmExceptionTable 1 }

ApmExceptionEntry ::= SEQUENCE {

apmExceptionIndex Unsigned32,  
apmExceptionResponsivenessComparison INTEGER,  
apmExceptionResponsivenessThreshold Unsigned32,  
apmExceptionUnsuccessfulException INTEGER,  
apmExceptionResponsivenessEvents Counter32,  
apmExceptionUnsuccessfulEvents Counter32,  
apmExceptionOwner OwnerString,  
apmExceptionStorageType StorageType,  
apmExceptionStatus RowStatus

}

apmExceptionIndex

OBJECT-TYPE

SYNTAX Unsigned32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the

apmExceptionTable amongst other entries with equivalent index values for apmAppDirAppLocalIndex and apmAppDirResponsivenessType. Each such entry sets up thresholds for a particular measurement of a particular application."

::= { apmExceptionEntry 1 }

apmExceptionResponsivenessComparison OBJECT-TYPE

SYNTAX INTEGER {  
    none(1),  
    greater(2),  
    less(3)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"If this value is greater(2) or less(3), the associated apmExceptionResponsivenessThreshold will be compared to this value and an exception will be created if the responsiveness is greater than the threshold (greater(2)) or less than the threshold (less(3))."

::= { apmExceptionEntry 2 }

apmExceptionResponsivenessThreshold OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The threshold that responsiveness metrics are compared to."

::= { apmExceptionEntry 3 }

apmExceptionUnsuccessfulException OBJECT-TYPE

SYNTAX INTEGER {  
    off(1),  
    on(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"If this value is on(2), an exception will be created if a transaction of the associated type is unsuccessful."

::= { apmExceptionEntry 4 }

apmExceptionResponsivenessEvents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of responsiveness exceptions generated. This counter will be incremented even if no notification was sent due to notifications not being configured or due to exceeding the apmNotificationMaxRate value."  
::= { apmExceptionEntry 5 }

apmExceptionUnsuccessfulEvents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of unsuccessful exceptions generated. This counter will be incremented even if no notification was sent due to notifications not being configured or due to exceeding the apmNotificationMaxRate value."  
::= { apmExceptionEntry 6 }

apmExceptionOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."  
::= { apmExceptionEntry 7 }

apmExceptionStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type of this apmReportControlEntry. If the value of this object is 'permanent', no objects in this row need to be writable."  
::= { apmExceptionEntry 8 }

apmExceptionStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this apmExceptionEntry. The only objects in the entry that may be modified while the entry is in the active

state are apmExceptionResponsivenessComparison,  
apmExceptionResponsivenessThreshold and  
apmExceptionUnsuccessfulException."  
::= { apmExceptionEntry 9 }

#### apmThroughputExceptionMinTime OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"Because the responsiveness for throughput-oriented transactions is divided by the elapsed time, it can be very sensitive to short-term performance variations for transactions that take a short period of time. For example, when downloading

a very short file, a single dropped packet could double or triple the total response time.

Further, throughput is usually examined for applications that transfer a lot of data, and when doing so it is helpful to conceptualize transaction costs that are proportional to the amount of data separately from those costs that are relatively fixed (i.e., independent of the amount of data). For very short transactions, these fixed transaction costs (handshake, setup time, authentication, round-trip time) may dominate the total response time for the transaction, resulting in throughput measurements that aren't really proportional to the network's, server's and client's combined data throughput capability.

This object controls the minimum number of seconds that an throughput-based transaction must exceed before an exception can be generated for it. If this object is set to zero, then all throughput-based transactions are candidates for exceptions.

The value of this object must persist across reboots."

DEFVAL { 10 }

::= { apmMibObjects 14 }

#### apmNotificationMaxRate OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of notifications that can be generated from this agent by the apmExceptionTable in any 60 second period.

The value of this object must persist across reboots."

DEFVAL { 1 }

::= { apmMibObjects 15 }

-- APM Notifications

apmNotifications OBJECT IDENTIFIER ::= { apm 0 }

apmTransactionResponsivenessAlarm NOTIFICATION-TYPE

OBJECTS { apmExceptionResponsivenessThreshold,  
apmTransactionResponsiveness }

STATUS current

DESCRIPTION

"Notification sent when a transaction exceeds a threshold defined in the apmException table. The index of the

included apmExceptionResponsivenessThreshold object identifies the apmExceptionEntry that specified the threshold. The apmTransactionResponsiveness variable identifies the actual transaction and its responsiveness.

Agent implementors are urged to include additional data objects in the alarm that may explain the reason for the alarm. It is helpful to include such data in the alarm because it describes the situation at the time the alarm was generated, where polls after the fact may not provide meaningful information. Examples of such information are CPU load, memory utilization, network utilization, and transaction statistics."

::= { apmNotifications 1 }

apmTransactionUnsuccessfulAlarm NOTIFICATION-TYPE

OBJECTS { apmExceptionResponsivenessThreshold }

STATUS current

DESCRIPTION

"Notification sent when a transaction is unsuccessful.

The index of the included

apmExceptionResponsivenessThreshold

object identifies both the type of the transaction that caused this notification as well as the apmExceptionEntry that

specified the threshold.

Agent implementors are urged to include additional data objects in the alarm that may explain the reason for the alarm. It is helpful to include such data in the alarm because it describes the situation at the time the alarm was generated, where polls after the fact may not provide meaningful information. Examples of such information are CPU load, memory utilization, network utilization, and transaction statistics."

```
::= { apmNotifications 2 }
```

apmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to the APM MIB"

MODULE -- this module

MANDATORY-GROUPS { apmAppDirGroup, apmReportGroup }

GROUP apmUserDefinedApplicationsGroup

DESCRIPTION

"Implementation of the apmUserDefinedApplicationsGroup is optional."

GROUP apmTransactionGroup

DESCRIPTION

"Implementation of the apmTransactionGroup is optional."

GROUP apmExceptionGroup

DESCRIPTION

"Implementation of the apmExceptionGroup is optional."

GROUP apmNotificationGroup

DESCRIPTION

"Implementation of the apmNotificationGroup is optional."

```
::= { apmCompliances 1 }
```

apmAppDirGroup OBJECT-GROUP

OBJECTS { apmAppDirConfig,  
apmAppDirResponsivenessBoundary1,  
apmAppDirResponsivenessBoundary2,  
apmAppDirResponsivenessBoundary3,  
apmAppDirResponsivenessBoundary4,

apmAppDirResponsivenessBoundary5,  
apmAppDirResponsivenessBoundary6,  
apmBucketBoundaryLastChange, apmAppDirID,  
apmNameMachineName, apmNameUserName }

STATUS

current

DESCRIPTION

"The APM MIB directory of applications and application verbs."

::= { apmGroups 1 }

apmUserDefinedApplicationsGroup OBJECT-GROUP

OBJECTS { apmHttpFilterAppLocalIndex,  
apmHttpFilterServerProtocol,  
apmHttpFilterServerAddress, apmHttpFilterURLPath,  
apmHttpFilterMatchType, apmHttpFilterOwner,  
apmHttpFilterStorageType, apmHttpFilterRowStatus,  
apmHttpIgnoreUnregisteredURLs, apmHttp4xxIsFailure,  
apmUserDefinedAppParentIndex,

apmUserDefinedAppApplication }

STATUS current

DESCRIPTION

"Objects used for creating and managing user-defined  
applications."

::= { apmGroups 2 }

apmReportGroup OBJECT-GROUP

OBJECTS { apmReportControlDataSource,  
apmReportControlAggregationType,  
apmReportControlInterval,  
apmReportControlRequestedSize,  
apmReportControlGrantedSize,  
apmReportControlRequestedReports,  
apmReportControlGrantedReports,  
apmReportControlStartTime,  
apmReportControlReportNumber,  
apmReportControlDeniedInserts,  
apmReportControlDroppedFrames,  
apmReportControlOwner,  
apmReportControlStorageType,  
apmReportControlStatus,  
apmReportTransactionCount,  
apmReportSuccessfulTransactions,  
apmReportResponsivenessMean,  
apmReportResponsivenessMin,  
apmReportResponsivenessMax,



apmReportResponsivenessB1,  
apmReportResponsivenessB2,  
apmReportResponsivenessB3,  
apmReportResponsivenessB4,  
apmReportResponsivenessB5,  
apmReportResponsivenessB6,  
apmReportResponsivenessB7 }

STATUS current

DESCRIPTION

"The apm report group controls the creation  
and retrieval of  
reports that aggregate application performance."  
::= { apmGroups 3 }

apmTransactionGroup OBJECT-GROUP

OBJECTS { apmTransactionResponsiveness,  
apmTransactionAge, apmTransactionSuccess,  
apmTransactionsRequestedHistorySize }

STATUS current

DESCRIPTION

"The apm transaction group contains statistics for  
individual transactions."

::= { apmGroups 4 }

apmExceptionGroup OBJECT-GROUP

OBJECTS { apmExceptionResponsivenessComparison,  
apmExceptionResponsivenessThreshold,  
apmExceptionUnsuccessfulException,  
apmExceptionResponsivenessEvents,  
apmExceptionUnsuccessfulEvents,  
apmExceptionOwner, apmExceptionStorageType,  
apmExceptionStatus, apmThroughputExceptionMinTime,  
apmNotificationMaxRate }

STATUS current

DESCRIPTION

"The apm exception group causes notifications to be sent  
whenever  
transactions are detected that had poor availability  
or responsiveness."  
::= { apmGroups 5 }

apmNotificationGroup NOTIFICATION-GROUP

NOTIFICATIONS { apmTransactionResponsivenessAlarm,  
apmTransactionUnsuccessfulAlarm }

STATUS current

DESCRIPTION

"Notifications sent by an APM MIB agent."

::= { apmGroups 6 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB

No license file was found, but licenses were detected in source scan.

DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,

Integer32, NOTIFICATION-TYPE

FROM SNMPv2-SMI

-- from [RFC2578]

TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

FROM SNMPv2-TC

-- from [RFC2579]

CounterBasedGauge64

FROM HCNUM-TC

-- from [RFC2856]

ifIndex

FROM IF-MIB

-- from [RFC2863]

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP

FROM SNMPv2-CONF;

-- from [RFC2580]

dot3OamMIB MODULE-IDENTITY

LAST-UPDATED "200706140000Z" -- June 14,2007"

ORGANIZATION

"IETF Ethernet Interfaces and Hub MIB Working Group"

CONTACT-INFO

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#### DESCRIPTION

"The MIB module for managing the new Ethernet OAM features introduced by the Ethernet in the First Mile taskforce (IEEE 802.3ah). The functionality presented here is based on IEEE 802.3ah [802.3ah], released in October, 2004. [802.3ah] was prepared as an addendum to the standing version of IEEE 802.3 [802.3-2002]. Since then, [802.3ah] has been merged into the base IEEE 802.3 specification in [802.3-2005].

In particular, this MIB focuses on the new OAM functions introduced in Clause 57 of [802.3ah]. The OAM functionality of Clause 57 is controlled by new management attributes introduced in Clause 30 of [802.3ah]. The OAM functions are not specific to any particular Ethernet physical layer, and can be generically applied to any Ethernet interface of [802.3-2002].

An Ethernet OAM protocol data unit is a valid Ethernet frame with a destination MAC address equal to the reserved MAC address for Slow Protocols (See 43B of [802.3ah]), a lengthOrType field equal to the reserved type for Slow Protocols, and a Slow Protocols subtype equal to that of the subtype reserved for Ethernet OAM. OAMPDU is used throughout this document as an abbreviation for Ethernet OAM protocol data unit.

The following reference is used throughout this MIB module:

[802.3ah] refers to:

IEEE Std 802.3ah-2004: 'Draft amendment to - Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications - Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', October 2004.

[802.3-2002] refers to:

IEEE Std 802.3-2002:

'Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications - Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', March 2002.

[802.3-2005] refers to:

IEEE Std 802.3-2005:

'Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks  
- Specific requirements - Part  
3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications - Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks', December 2005.

[802-2001] refers to:

'IEEE Standard for LAN/MAN (Local Area Network/Metropolitan Area Network): Overview and Architecture', IEEE 802, June 2001.

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REVISION "200706140000Z" -- June 14, 2007"

DESCRIPTION "Initial version, published as RFC 4878."

::= { mib-2 158 }

--

-- Sections of the Ethernet OAM MIB

--

dot3OamNotifications OBJECT IDENTIFIER ::= { dot3OamMIB 0 }

dot3OamObjects OBJECT IDENTIFIER ::= { dot3OamMIB 1 }

dot3OamConformance OBJECT IDENTIFIER ::= { dot3OamMIB 2 }

--

-- Textual conventions for the OAM MIB

```

--
EightOTwoOui ::= TEXTUAL-CONVENTION
  STATUS    current
  DESCRIPTION
    "24-bit Organizationally Unique Identifier. Information on
    OUIs can be found in IEEE 802-2001 [802-2001], Clause 9."
  SYNTAX    OCTET STRING(SIZE(3))

-- *****
--
-- Ethernet OAM Control group
--

dot3OamTable OBJECT-TYPE
  SYNTAX    SEQUENCE OF Dot3OamEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "This table contains the primary controls and status for the
    OAM capabilities of an Ethernet-like interface. There will be
    one row in this table for each Ethernet-like interface in the
    system that supports the OAM functions defined in [802.3ah].
    "
  ::= { dot3OamObjects 1 }

dot3OamEntry OBJECT-TYPE
  SYNTAX    Dot3OamEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "An entry in the table that contains information on the
    Ethernet OAM function for a single Ethernet like interface.
    Entries in the table are created automatically for each
    interface supporting Ethernet OAM. The status of the row
    entry can be determined from dot3OamOperStatus.

    A dot3OamEntry is indexed in the dot3OamTable by the ifIndex
    object of the Interfaces MIB.
    "
  INDEX     { ifIndex }
  ::= { dot3OamTable 1 }

Dot3OamEntry ::=
  SEQUENCE {
    dot3OamAdminState    INTEGER,
    dot3OamOperStatus    INTEGER,

```

```
dot3OamMode          INTEGER,
dot3OamMaxOamPduSize Unsigned32,
dot3OamConfigRevision Unsigned32,
dot3OamFunctionsSupported BITS
}
```

dot3OamAdminState OBJECT-TYPE

```
SYNTAX  INTEGER {
    enabled(1),
    disabled(2)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to provision the default administrative OAM mode for this interface. This object represents the desired state of OAM for this interface.

The dot3OamAdminState always starts in the disabled(2) state until an explicit management action or configuration information retained by the system causes a transition to the enabled(1) state. When enabled(1), Ethernet OAM will attempt to operate over this interface.

"

REFERENCE "[802.3ah], 30.3.6.1.2"

::= { dot3OamEntry 1 }

dot3OamOperStatus OBJECT-TYPE

```
SYNTAX  INTEGER {
    disabled(1),
    linkFault(2),
    passiveWait(3),
    activeSendLocal(4),
    sendLocalAndRemote(5),
    sendLocalAndRemoteOk(6),
    oamPeeringLocallyRejected(7),
    oamPeeringRemotelyRejected(8),
    operational(9),
    nonOperHalfDuplex(10)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At initialization and failure conditions, two OAM entities on

the same full-duplex Ethernet link begin a discovery phase to

determine what OAM capabilities may be used on that link. The progress of this initialization is controlled by the OAM sublayer.

This value is always disabled(1) if OAM is disabled on this interface via the dot3OamAdminState.

If the link has detected a fault and is transmitting OAMPDUs with a link fault indication, the value is linkFault(2).

Also, if the interface is not operational (ifOperStatus is not up(1)), linkFault(2) is returned. Note that the object ifOperStatus may not be up(1) as a result of link failure or administrative action (ifAdminState being down(2) or testing(3)).

The passiveWait(3) state is returned only by OAM entities in passive mode (dot3OamMode) and reflects the state in which the OAM entity is waiting to see if the peer device is OAM capable. The activeSendLocal(4) value is used by active mode devices (dot3OamMode) and reflects the OAM entity actively trying to discover whether the peer has OAM capability but has not yet made that determination.

The state sendLocalAndRemote(5) reflects that the local OAM entity has discovered the peer but has not yet accepted or rejected the configuration of the peer. The local device can, for whatever reason, decide that the peer device is unacceptable and decline OAM peering. If the local OAM entity rejects the peer OAM entity, the state becomes oamPeeringLocallyRejected(7). If the OAM peering is allowed by the local device, the state moves to sendLocalAndRemoteOk(6). Note that both the sendLocalAndRemote(5) and oamPeeringLocallyRejected(7) states fall within the state SEND\_LOCAL\_REMOTE of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the local OAM client has actively rejected the peering or has just not indicated any decision yet. Whether a peering decision has been made is indicated via the local flags field in the OAMPDU (reflected in the aOAMLocalFlagsField of 30.3.6.1.10).

If the remote OAM entity rejects the peering, the state becomes oamPeeringRemotelyRejected(8). Note that both the sendLocalAndRemoteOk(6) and oamPeeringRemotelyRejected(8) states fall within the state SEND\_LOCAL\_REMOTE\_OK of the Discovery state diagram [802.3ah, Figure 57-5], with the

difference being whether the remote OAM client has rejected

the peering or has just not yet decided. This is indicated

via the remote flags field in the OAMPDU (reflected in the aOAMRemoteFlagsField of 30.3.6.1.11).

When the local OAM entity learns that both it and the remote OAM entity have accepted the peering, the state moves to operational(9) corresponding to the SEND\_ANY state of the Discovery state diagram [802.3ah, Figure 57-5].

Since Ethernet OAM functions are not designed to work completely over half-duplex interfaces, the value nonOperHalfDuplex(10) is returned whenever Ethernet OAM is enabled (dot3OamAdminState is enabled(1)), but the interface is in half-duplex operation.

REFERENCE "[802.3ah], 30.3.6.1.4, 30.3.6.1.10, 30.3.6.1.11"  
::= { dot3OamEntry 2 }

dot3OamMode OBJECT-TYPE

```
SYNTAX INTEGER {  
    passive(1),  
    active(2)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object configures the mode of OAM operation for this Ethernet-like interface. OAM on Ethernet interfaces may be in 'active' mode or 'passive' mode. These two modes differ in that active mode provides additional capabilities to initiate monitoring activities with the remote OAM peer entity, while passive mode generally waits for the peer to initiate OAM actions with it. As an example, an active OAM entity can put the remote OAM entity in a loopback state, where a passive OAM entity cannot.

The default value of dot3OamMode is dependent on the type of system on which this Ethernet-like interface resides. The default value should be 'active(2)' unless it is known that this system should take on a subservient role to the other device connected over this interface.



Changing this value results in incrementing the configuration revision field of locally generated OAMPDUs (30.3.6.1.12) and potentially re-doing the OAM discovery process if the dot3OamOperStatus was already operational(9).

"

REFERENCE "[802.3ah], 30.3.6.1.3"

::= { dot3OamEntry 3 }

dot3OamMaxOamPduSize OBJECT-TYPE

SYNTAX Unsigned32 (64..1518)

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest OAMPDU that the OAM entity supports. OAM entities exchange maximum OAMPDU sizes and negotiate to use the smaller of the two maximum OAMPDU sizes between the peers. This value is determined by the local implementation.

"

REFERENCE "[802.3ah], 30.3.6.1.8"

::= { dot3OamEntry 4 }

dot3OamConfigRevision OBJECT-TYPE

SYNTAX Unsigned32(0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The configuration revision of the OAM entity as reflected in the latest OAMPDU sent by the OAM entity. The config revision is used by OAM entities to indicate that configuration changes have occurred, which might require the peer OAM entity to re-evaluate whether OAM peering is allowed.

"

REFERENCE "[802.3ah], 30.3.6.1.12"

::= { dot3OamEntry 5 }

dot3OamFunctionsSupported OBJECT-TYPE

SYNTAX BITS {

    unidirectionalSupport (0),

    loopbackSupport(1),

    eventSupport(2),

    variableSupport(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The OAM functions supported on this Ethernet-like interface. OAM consists of separate functional sets beyond the basic discovery process that is always required. These functional groups can be supported independently by any implementation. These values are communicated to the peer via the local configuration field of Information OAMPDUs.

Setting 'unidirectionalSupport(0)' indicates that the OA

entity supports the transmission of OAMPDUs on links that are operating in unidirectional mode (traffic flowing in one direction only). Setting 'loopbackSupport(1)' indicates that the OAM entity can initiate and respond to loopback commands. Setting 'eventSupport(2)' indicates that the OAM entity can send and receive Event Notification OAMPDUs. Setting 'variableSupport(3)' indicates that the OAM entity can send and receive Variable Request and Response OAMPDUs.

REFERENCE "[802.3ah], 30.3.6.1.6"

::= { dot3OamEntry 6 }

-- \*\*\*\*\*

--

-- Ethernet OAM Peer group

--

dot3OamPeerTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamPeerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains information about the OAM peer for a particular Ethernet-like interface. OAM entities communicate with a single OAM peer entity on Ethernet links on which OA is enabled and operating properly. There is one entry in this table for each entry in the dot3OamTable for which information on the peer OAM entity is available.

"

::= { dot3OamObjects 2 }

dot3OamPeerEntry OBJECT-TYPE

SYNTAX Dot3OamPeerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing information on the peer OAM entity for a single Ethernet-like interface.

Note that there is at most one OAM peer for each Ethernet-like interface. Entries are automatically created when information about the OAM peer entity becomes available, and automatically deleted when the OAM peer entity is no longer in communication. Peer information is not available when dot3OamOperStatus is disabled(1), linkFault(2), passiveWait(3), activeSendLocal(4), or nonOperHalfDuplex(10)."

INDEX { ifIndex }

::= { dot3OamPeerTable 1 }

Dot3OamPeerEntry ::=

SEQUENCE {

dot3OamPeerMacAddress        MacAddress,  
dot3OamPeerVendorOui        EightOTwoOui,  
dot3OamPeerVendorInfo       Unsigned32,  
dot3OamPeerMode             INTEGER,  
dot3OamPeerMaxOamPduSize     Unsigned32,  
dot3OamPeerConfigRevision   Unsigned32,  
dot3OamPeerFunctionsSupported   BITS

}

dot3OamPeerMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The MAC address of the peer OAM entity. The MAC address is derived from the most recently received OAMPDU.

"

REFERENCE "[802.3ah], 30.3.6.1.5."

::= { dot3OamPeerEntry 1 }

dot3OamPeerVendorOui OBJECT-TYPE

SYNTAX EightOTwoOui

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The

OUI of the OAM peer as reflected in the latest

Information OAMPDU received with a Local Information TLV. The OUI can be used to identify the vendor of the remote OA entity. This value is initialized to three octets of zero before any Local Information TLV is received.

"

REFERENCE "[802.3ah], 30.3.6.1.16."

::= { dot3OamPeerEntry 2 }

dot3OamPeerVendorInfo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Vendor Info of the OAM peer as reflected in the latest Information OAMPDU received with a Local Information TLV. The semantics of the Vendor Information field is proprietary and specific to the vendor (identified by the dot3OamPeerVendorOui). This information could, for example,

be used to identify a specific product or product family.

This value is initialized to zero before any Local Information TLV is received.

"

REFERENCE "[802.3ah], 30.3.6.1.17."

::= { dot3OamPeerEntry 3 }

dot3OamPeerMode OBJECT-TYPE

SYNTAX INTEGER {

passive(1),

active(2),

unknown(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The mode of the OAM peer as reflected in the latest Information OAMPDU received with a Local Information TLV. The mode of the peer can be determined from the Configuration field in the Local Information TLV of the last Information OAMPDU received from the peer. The value is unknown(3) whenever no Local Information TLV has been received. The values of active(2) and passive(1) are returned when a Local Information TLV has been received indicating that the peer is in active or passive mode, respectively.

"

REFERENCE "[802.3ah], 30.3.6.1.7."

::= { dot3OamPeerEntry 4 }

dot3OamPeerMaxOamPduSize

OBJECT-TYPE

SYNTAX Unsigned32 (0 | 64..1518)

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum size of OAMPDU supported by the peer as reflected in the latest Information OAMPDU received with a Local Information TLV. Ethernet OAM on this interface must not use OAMPDUs that exceed this size. The maximum OAMPDU size can be determined from the PDU Configuration field of the Local Information TLV of the last Information OAMPDU received from the peer. A value of zero is returned if no Local Information TLV has been received. Otherwise, the value of the OAM peer's maximum OAMPDU size is returned in this value.

"

REFERENCE "[802.3ah], 30.3.6.1.9."

::= { dot3OamPeerEntry 5 }

dot3OamPeerConfigRevision OBJECT-TYPE

SYNTAX Unsigned32(0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The configuration revision of the OAM peer as reflected in the latest OAMPDU. This attribute is changed by the peer whenever it has a local configuration change for Ethernet OA on this interface. The configuration revision can be determined from the Revision field of the Local Information TLV of the most recently received Information OAMPDU with a Local Information TLV. A value of zero is returned if no Local Information TLV has been received.

"

REFERENCE "[802.3ah], 30.3.6.1.13."

::= { dot3OamPeerEntry 6 }

dot3OamPeerFunctionsSupported OBJECT-TYPE

SYNTAX BITS {

    unidirectionalSupport (0),

    loopbackSupport(1),

```

        eventSupport(2),
        variableSupport(3)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The OAM functions supported on this Ethernet-like interface.
    OAM consists of separate functionality
sets above the basic
discovery process. This value indicates the capabilities of
the peer OAM entity with respect to these functions. This
value is initialized so all bits are clear.

If unidirectionalSupport(0) is set, then the peer OAM entity
supports sending OAM frames on Ethernet interfaces when the
receive path is known to be inoperable. If
loopbackSupport(1) is set, then the peer OAM entity can send
and receive OAM loopback commands. If eventSupport(2) is set,
then the peer OAM entity can send and receive event OAMPDUs to
signal various error conditions. If variableSupport(3) is
set, then the peer OAM entity can send and receive variable
requests to monitor the attribute value as described in Clause
57 of [802.3ah].

The capabilities of the OAM peer can be determined from the
configuration field of the Local Information TLV of the most
recently received
Information OAMPDU with a Local Information
TLV. All zeros are returned if no Local Information TLV has
yet been received.
"
REFERENCE "[802.3ah], REFERENCE 30.3.6.1.7."
::= { dot3OamPeerEntry 7 }

-- *****
--
-- Ethernet OAM Loopback group
--

dot3OamLoopbackTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot3OamLoopbackEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains controls for the loopback state of the

```

local link as well as indicates the status of the loopback function. There is one entry in this table for each entry in dot3OamTable that supports loopback functionality (where dot3OamFunctionsSupported includes the loopbackSupport bit set).

Loopback can be used to place the remote OAM entity in a state where every received frame (except OAMPDUs) is echoed back

over the same interface on which they were received. In this state, at the remote entity, 'normal' traffic is disabled as only the looped back frames are transmitted on the interface. Loopback is thus an intrusive operation that prohibits normal data flow and should be used accordingly.

"

::= { dot3OamObjects 3 }

dot3OamLoopbackEntry OBJECT-TYPE

SYNTAX Dot3OamLoopbackEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table, containing information on the loopback status for a single Ethernet-like interface. Entries in the table are automatically created whenever the local OAM entity supports loopback capabilities. The loopback status on the interface can be determined from the dot3OamLoopbackStatus object.

"

INDEX { ifIndex }

::= { dot3OamLoopbackTable 1 }

Dot3OamLoopbackEntry ::=

SEQUENCE {

dot3OamLoopbackStatus

INTEGER,

dot3OamLoopbackIgnoreRx INTEGER

}

dot3OamLoopbackStatus OBJECT-TYPE

SYNTAX INTEGER {

-- all values, except where noted, can be read

-- but cannot be written

noLoopback (1),

-- initiatingLoopback can be read or written

initiatingLoopback (2),

remoteLoopback (3),

-- terminatingLoopback can be read or written

terminatingLoopback (4),

localLoopback (5),

unknown (6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The loopback status of the OAM entity. This status is determined by a combination of the local parser and multiplexer states, the remote parser and multiplexer states, as well as by the actions of the local OAM client. When operating in normal mode

with no loopback in progress, the

status reads noLoopback(1).

The values initiatingLoopback(2) and terminatingLoopback(4) can be read or written. The other values can only be read - they can never be written. Writing initiatingLoopback causes the local OAM entity to start the loopback process with its peer. This value can only be written when the status is noLoopback(1). Writing the value initiatingLoopback(2) in any other state has no effect. When in remoteLoopback(3), writing terminatingLoopback(4) causes the local OAM entity to initiate the termination of the loopback state. Writing terminatingLoopback(4) in any other state has no effect.

If the OAM client initiates a loopback and has sent a Loopback OAMPDU and is waiting for a response, where the local parser and multiplexer states are DISCARD (see [802.3ah, 57.2.11.1]), the status is 'initiatingLoopback'. In this

case, the local OAM entity has yet to receive any acknowledgment that the remote OAM entity has received its loopback command request.

If the local OAM client knows that the remote OAM entity is in loopback mode (via the remote state information as described in [802.3ah, 57.2.11.1, 30.3.6.1.15]), the status is remoteLoopback(3). If the local OAM client is in the process of terminating the remote loopback [802.3ah, 57.2.11.3,



30.3.6.1.14] with its local multiplexer and parser states in DISCARD, the status is terminatingLoopback(4). If the remote OAM client has put the local OAM entity in loopback mode as indicated by its local parser state, the status is localLoopback(5).

The unknown(6) status indicates that the parser and multiplexer combination is unexpected. This status may be returned if the OAM loopback is in a transition state but should not persist.

The values of this attribute correspond to the following values of the local and remote parser and multiplexer states.

| value         | LclPrsr | LclMux                | RmtPrsr | RmtMux  |
|---------------|---------|-----------------------|---------|---------|
| noLoopback    | FWD     | FWD                   | FWD     | FWD     |
| initLoopback  | DISCARD | DISCARD               | FWD     | FWD     |
| rmtLoopback   | DISCARD | FWD                   | LPBK    | DISCARD |
| tmtngLoopback | DISCARD | DISCARD               | LPBK    | DISCARD |
| lclLoopback   | LPBK    | DISCARD               | DISCARD | FWD     |
| unknown       | ***     | any other combination | ***     |         |

REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.61.14, 30.3.6.1.15"

::= { dot3OamLoopbackEntry 1 }

dot3OamLoopbackIgnoreRx OBJECT-TYPE

SYNTAX INTEGER { ignore(1), process(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Since OAM loopback is a disruptive operation (user traffic does not pass), this attribute provides a mechanism to provide controls

over whether received OAM loopback commands are processed or ignored. When the value is ignore(1), received loopback commands are ignored. When the value is process(2), OAM loopback commands are processed. The default value is to ignore loopback commands (ignore(1)).

REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.61.14, 30.3.6.1.15"

::= { dot3OamLoopbackEntry 2 }

-- \*\*\*\*\*

```
--  
-- Ethernet OAM Statistics group  
--
```

dot3OamStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains statistics for the OAM function on a particular Ethernet-like interface. There is an entry in the table for every entry in the dot3OamTable.

The counters in this table are defined as 32-bit entries to match the counter size as defined in [802.3ah].

Given that

the OA protocol is a slow protocol, the counters increment at a slow rate.

"

::= { dot3OamObjects 4 }

dot3OamStatsEntry OBJECT-TYPE

SYNTAX Dot3OamStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the table containing statistics information on the Ethernet OAM function for a single Ethernet-like interface. Entries are automatically created for every entry in the dot3OamTable. Counters are maintained across transitions in dot3OamOperStatus.

"

INDEX { ifIndex }

::= { dot3OamStatsTable 1 }

Dot3OamStatsEntry ::=

SEQUENCE {

dot3OamInformationTx Counter32,

dot3OamInformationRx Counter32,

dot3OamUniqueEventNotificationTx Counter32,

dot3OamUniqueEventNotificationRx Counter32,

dot3OamDuplicateEventNotificationTx

Counter32,

dot3OamDuplicateEventNotificationRx Counter32,

dot3OamLoopbackControlTx Counter32,

dot3OamLoopbackControlRx Counter32,

dot3OamVariableRequestTx Counter32,

dot3OamVariableRequestRx Counter32,

```

dot3OamVariableResponseTx      Counter32,

dot3OamVariableResponseRx      Counter32,
dot3OamOrgSpecificTx           Counter32,
dot3OamOrgSpecificRx           Counter32,
dot3OamUnsupportedCodesTx      Counter32,
dot3OamUnsupportedCodesRx      Counter32,
dot3OamFramesLostDueToOam      Counter32
}

```

dot3OamInformationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime. "

REFERENCE "[802.3ah], 30.3.6.1.20."

::= { dot3OamStatsEntry 1 }

dot3OamInformationRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Information OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.21."

::= { dot3OamStatsEntry 2 }

dot3OamUniqueEventNotificationTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"A count  
of the number of unique Event OAMPDU's transmitted on  
this interface. Event Notifications may be sent in duplicate  
to increase the probability of successfully being received,

given the possibility that a frame may be lost in transit.  
Duplicate Event Notification transmissions are counted by  
dot3OamDuplicateEventNotificationTx.

A unique Event Notification OAMPDU is indicated as an Event  
Notification OAMPDU with a Sequence Number field that is  
distinct from the previously transmitted Event Notification  
OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization  
of the management system, and at other times as indicated by  
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.22."

::= { dot3OamStatsEntry 3 }

dot3OamUniqueEventNotificationRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"A count of the number of unique Event OAMPDU's received on  
this interface. Event Notification OAMPDU's may be sent in  
duplicate to increase the probability of successfully being  
received, given the possibility that a frame may be lost in  
transit. Duplicate Event Notification receptions are counted  
by dot3OamDuplicateEventNotificationRx.

A unique Event Notification OAMPDU is indicated as an Event  
Notification OAMPDU with a Sequence Number field that is  
distinct from the previously received Event Notification  
OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization  
of the management system, and at other times as indicated by  
the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.24."

::= { dot3OamStatsEntry 4 }

dot3OamDuplicateEventNotificationTx OBJECT-TYPE

SYNTAX

Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of duplicate Event OAMPDUs transmitted

on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously transmitted Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.23."

::= { dot3OamStatsEntry 5 }

dot3OamDuplicateEventNotificationRx OBJECT-TYPE

SYNTAX Counter32

UNITS

"frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of duplicate Event OAMPDUs received on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization

of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.25."

::= { dot3OamStatsEntry 6 }

dot3OamLoopbackControlTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs transmitted

on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.26."

::= { dot3OamStatsEntry 7 }

dot3OamLoopbackControlRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Loopback Control OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.27."

::= { dot3OamStatsEntry 8 }

dot3OamVariableRequestTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.28."

::= { dot3OamStatsEntry 9 }

dot3OamVariableRequestRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Request OAMPDUs received on

this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.29."

::= { dot3OamStatsEntry  
10 }

dot3OamVariableResponseTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of Variable Response OAMPDUs transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.30."

::= { dot3OamStatsEntry 11 }

dot3OamVariableResponseRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"A count of the number of Variable Response OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.31."  
::= { dot3OamStatsEntry 12 }

dot3OamOrgSpecificTx OBJECT-TYPE

SYNTAX Counter32  
UNITS "frames"  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION  
"A count of the number of Organization Specific OAMPDUs

transmitted on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.32."  
::= { dot3OamStatsEntry 13 }

dot3OamOrgSpecificRx OBJECT-TYPE

SYNTAX Counter32  
UNITS "frames"  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION  
"A count of the number of Organization Specific OAMPDUs received on this interface.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.33."



::= { dot3OamStatsEntry 14 }

dot3OamUnsupportedCodesTx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs transmitted on this interface with an unsupported op-code.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.18."

::= { dot3OamStatsEntry 15 }

dot3OamUnsupportedCodesRx OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of OAMPDUs received on this interface

with an unsupported op-code.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.19."

::= { dot3OamStatsEntry 16 }

dot3OamFramesLostDueToOam OBJECT-TYPE

SYNTAX Counter32

UNITS "frames"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A count of the number of frames that were dropped by the OAM multiplexer. Since the OAM multiplexer has multiple inputs and a single output, there may be cases where frames are dropped due to transmit resource contention. This counter is

incremented whenever a frame is dropped by the OAM layer.  
Note that any Ethernet frame, not just OAMPDUs, may be dropped by the OAM layer. This can occur when an OAMPDU takes precedence over a 'normal' frame resulting in the 'normal' frame being dropped.

When this counter is incremented, no other counters in this MIB are incremented.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.

"

REFERENCE "[802.3ah], 30.3.6.1.46."

::= { dot3OamStatsEntry 17 }

-- \*\*\*\*\*

--

-- Ethernet OAM Event Configuration group

--

dot3OamEventConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Ethernet OAM includes the ability to generate and receive Event Notification OAMPDUs to indicate various link problems. This table contains the mechanisms to enable Event

Notifications and configure the thresholds to generate the standard Ethernet OAM events. There is one entry in the table for every entry in

dot3OamTable that supports OAM events

(where dot3OamFunctionsSupported includes the eventSupport bit set). The values in the table are maintained across changes to dot3OamOperStatus.

The standard threshold crossing events are:

- Errored Symbol Period Event. Generated when the number of symbol errors exceeds a threshold within a given window defined by a number of symbols (for example, 1,000 symbols out of 1,000,000 had errors).
- Errored Frame Period Event. Generated when the number of frame errors exceeds a threshold within a given window

defined by a number of frames (for example, 10 frames out of 1000 had errors).

- Errored Frame Event. Generated when the number of frame errors exceeds a threshold within a given window defined by a period of time (for example, 10 frames in 1 second had errors).

- Errored Frame Seconds

Summary Event. Generated when the number of errored frame seconds exceeds a threshold within a given time period (for example, 10 errored frame seconds within the last 100 seconds). An errored frame second is defined as a 1 second interval which had >0 frame errors.

There are other events (dying gasp, critical events) that are not threshold crossing events but which can be enabled/disabled via this table.

"

::= { dot3OamObjects 5 }

dot3OamEventConfigEntry OBJECT-TYPE

SYNTAX Dot3OamEventConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries are automatically created and deleted from this table, and exist whenever the OAM entity supports Ethernet OA events (as indicated by the eventSupport bit in dot3OamFunctionsSupported). Values in the table are maintained across changes to the value of dot3OamOperStatus.

Event

configuration controls when the local management entity sends Event Notification OAMPDUs to its OAM peer, and when certain event flags are set or cleared in OAMPDUs.

"

INDEX { ifIndex }

::= { dot3OamEventConfigTable 1 }

Dot3OamEventConfigEntry ::=

SEQUENCE {

|                                  |             |
|----------------------------------|-------------|
| dot3OamErrSymPeriodWindowHi      | Unsigned32, |
| dot3OamErrSymPeriodWindowLo      | Unsigned32, |
| dot3OamErrSymPeriodThresholdHi   | Unsigned32, |
| dot3OamErrSymPeriodThresholdLo   | Unsigned32, |
| dot3OamErrSymPeriodEvNotifEnable | TruthValue, |
| dot3OamErrFramePeriodWindow      | Unsigned32, |
| dot3OamErrFramePeriodThreshold   | Unsigned32, |

dot3OamErrFramePeriodEvNotifEnable TruthValue,  
dot3OamErrFrameWindow Unsigned32,  
dot3OamErrFrameThreshold Unsigned32,  
dot3OamErrFrameEvNotifEnable TruthValue,

dot3OamErrFrameSecsSummaryWindow Integer32,  
dot3OamErrFrameSecsSummaryThreshold Integer32,  
dot3OamErrFrameSecsEvNotifEnable TruthValue,  
dot3OamDyingGaspEnable TruthValue,  
dot3OamCriticalEventEnable TruthValue  
}

dot3OamErrSymPeriodWindowHi OBJECT-TYPE

SYNTAX Unsigned32

UNITS "2^32 symbols"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The two objects dot3OamErrSymPeriodWindowHi and dot3OamErrSymPeriodLo together form an unsigned 64-bit integer representing the number of symbols over which this threshold event is defined. This is defined as

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event

Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodWindow is the number of symbols in one second for the underlying physical layer.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 1 }

dot3OamErrSymPeriodWindowLo OBJECT-TYPE

SYNTAX Unsigned32

UNITS "symbols"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The two objects dot3OamErrSymPeriodWindowHi and

dot3OamErrSymPeriodWindowLo together form an unsigned 64-bit integer representing the number of symbols over which this threshold event is defined. This is defined as

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) \\ + \text{dot3OamErrSymPeriodWindowLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodWindow is the number of symbols in one second for the underlying physical layer.

"

REFERENCE "[802.3ah], 30.3.6.1.34"  
::= { dot3OamEventConfigEntry 2 }

dot3OamErrSymPeriodThresholdHi OBJECT-TYPE

SYNTAX Unsigned32

UNITS "2<sup>32</sup> symbols"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The two objects dot3OamErrSymPeriodThresholdHi and dot3OamErrSymPeriodThresholdLo together form an unsigned 64-bit integer representing the number of symbol errors that must occur within a given window to cause this event.

This is defined as

$$\text{dot3OamErrSymPeriodThreshold} = \\ ((2^{32}) * \\ \text{dot3OamErrSymPeriodThresholdHi}) \\ + \text{dot3OamErrSymPeriodThresholdLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol errors. If the threshold value is zero, then an Event

Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 3 }

dot3OamErrSymPeriodThresholdLo OBJECT-TYPE

SYNTAX Unsigned32

UNITS "symbols"

MAX-ACCESS read-write

STATUS

current

DESCRIPTION

"The two objects dot3OamErrSymPeriodThresholdHi and dot3OamErrSymPeriodThresholdLo together form an unsigned 64-bit integer representing the number of symbol errors that must occur within a given window to cause this event.

This is defined as

$$\text{dot3OamErrSymPeriodThreshold} = \\ ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) \\ + \text{dot3OamErrSymPeriodThresholdLo}$$

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

"

REFERENCE "[802.3ah], 30.3.6.1.34"

::= { dot3OamEventConfigEntry 4 }

dot3OamErrSymPeriodEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"If true, the OAM entity should send an Event Notification OAMPDU when an Errored Symbol Period Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

"

::= { dot3OamEventConfigEntry 5 }

## dot3OamErrFramePeriodWindow OBJECT-TYPE

SYNTAX Unsigned32

UNITS "frames"

MAX-ACCESS read-write

STATUS current

### DESCRIPTION

"The

number of frames over which the threshold is defined.

The default value of the window is the number of minimum size Ethernet frames that can be received over the physical layer in one second.

If dot3OamErrFramePeriodThreshold frame errors occur within a window of dot3OamErrFramePeriodWindow frames, an Event Notification OAMPDU should be generated with an Errored Frame Period Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.38"

::= { dot3OamEventConfigEntry 6 }

## dot3OamErrFramePeriodThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "frames"

MAX-ACCESS read-write

STATUS current

### DESCRIPTION

"The number of frame errors that must occur for this event to be triggered. The default value is one frame error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically

(at the end of every window). This can be

used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFramePeriodThreshold frame errors occur within a window of dot3OamErrFramePeriodWindow frames, an Event Notification OAMPDU should be generated with an Errored Frame Period Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.38"

::= { dot3OamEventConfigEntry 7 }

dot3OamErrFramePeriodEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If true, the OAM entity should send an Event Notification OAMPDU when an Errored Frame Period Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

"

::= { dot3OamEventConfigEntry 8 }

dot3OamErrFrameWindow OBJECT-TYPE

SYNTAX Unsigned32

UNITS "tenths of a second"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The amount of time (in 100ms increments) over which the threshold is defined. The default value is 10 (1 second).

If dot3OamErrFrameThreshold frame errors occur within a window of dot3OamErrFrameWindow seconds (measured in tenths of seconds), an Event Notification OAMPDU should be generated with an Errored Frame Event TLV indicating that the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.36"

DEFVAL { 10 }

::= { dot3OamEventConfigEntry 9 }



dot3OamErrFrameThreshold OBJECT-TYPE

SYNTAX Unsigned32  
UNITS "frames"  
MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The number of frame errors that must occur for this event to be triggered. The default value is one frame error. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFrameThreshold frame errors occur within a window of dot3OamErrFrameWindow (in tenths of seconds), an Event Notification OAMPDU should be generated with an Errored Frame Event TLV indicating the threshold has been crossed in this window.

"

REFERENCE "[802.3ah], 30.3.6.1.36"

DEFVAL { 1 }

::= { dot3OamEventConfigEntry 10 }

dot3OamErrFrameEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue  
MAX-ACCESS read-write  
STATUS current

DESCRIPTION

"If true,  
the OAM entity should send an Event Notification OAMPDU when an Errored Frame Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

"

DEFVAL { true }

::= { dot3OamEventConfigEntry 11 }

dot3OamErrFrameSecsSummaryWindow OBJECT-TYPE

SYNTAX Integer32 (100..9000)  
UNITS "tenths of a second"  
MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The amount of time (in 100 ms intervals) over which the threshold is defined. The default value is 100 (10 seconds).

If dot3OamErrFrameSecsSummaryThreshold frame errors occur within a window of dot3OamErrFrameSecsSummaryWindow (in tenths of seconds), an Event Notification OAMPDU should be generated with an Errored Frame

Seconds Summary Event TLV indicating that the threshold has been crossed in this window.  
"

REFERENCE "[802.3ah], 30.3.6.1.40"

DEFVAL { 100 }

::= { dot3OamEventConfigEntry 12 }

dot3OamErrFrameSecsSummaryThreshold OBJECT-TYPE

SYNTAX Integer32 (1..900)

UNITS "errored frame seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The number of errored frame seconds that must occur for this event to be triggered. The default value is one errored frame second. If the threshold value is zero, then an Event Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.

If dot3OamErrFrameSecsSummaryThreshold frame errors occur within a window of dot3OamErrFrameSecsSummaryWindow (in tenths of seconds),  
an Event Notification OAMPDU should be generated with an Errored Frame Seconds Summary Event TLV indicating that the threshold has been crossed in this window.  
"

REFERENCE "[802.3ah], 30.3.6.1.40"

DEFVAL { 1 }

::= { dot3OamEventConfigEntry 13 }

dot3OamErrFrameSecsEvNotifEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"If true, the local OAM entity should send an Event Notification OAMPDU when an Errored Frame Seconds Event occurs.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.  
"

DEFVAL { true }

::= { dot3OamEventConfigEntry 14 }

#### dot3OamDyingGaspEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"If true, the local OAM entity should attempt to indicate a dying gasp via the OAMPDU flags field to its peer OAM entity when a dying gasp event occurs. The exact definition of a dying gasp event is implementation dependent. If the system

does not support dying gasp capability, setting this object has no effect, and reading the object should always result in 'false'.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.  
"

DEFVAL { true }

::= { dot3OamEventConfigEntry 15 }

#### dot3OamCriticalEventEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"If true, the local OAM entity should attempt to indicate

a

critical event via the OAMPDU flags to its peer OAM entity when a critical event occurs. The exact definition of a critical event is implementation dependent. If the system

does not support critical event capability, setting this object has no effect, and reading the object should always result in 'false'.

By default, this object should have the value true for Ethernet-like interfaces that support OAM. If the OAM layer does not support Event Notifications (as indicated via the dot3OamFunctionsSupported attribute), this value is ignored.

"

DEFVAL { true }

::= { dot3OamEventConfigEntry 16 }

-- \*\*\*\*\*

--

-- Ethernet OAM Event Log group

--

dot3OamEventLogTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot3OamEventLogEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table records

a history of the events that have occurred

at the Ethernet OAM level. These events can include locally detected events, which may result in locally generated OAMPDUs, and remotely detected events, which are detected by the OAM peer entity and signaled to the local entity via

Ethernet OAM. Ethernet OAM events can be signaled by Event Notification OAMPDUs or by the flags field in any OAMPDU.

This table contains both threshold crossing events and non-threshold crossing events. The parameters for the threshold window, threshold value, and actual value (dot3OamEventLogWindowXX, dot3OamEventLogThresholdXX, dot3OamEventLogValue) are only applicable to threshold crossing events, and are returned as all F's ( $2^{32} - 1$ ) for non-threshold crossing events.

Entries in the table are automatically created when such events are detected. The size of the table is implementation dependent.

When the table reaches its maximum size, older

entries are automatically deleted to make room for newer entries.

"

::= { dot3OamObjects 6 }

dot3OamEventLogEntry OBJECT-TYPE

SYNTAX Dot3OamEventLogEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the dot3OamEventLogTable. Entries are automatically created whenever Ethernet OAM events occur at the local OAM entity, and when Event Notification OAMPDUs are received at the local OAM entity (indicating that events have occurred at the peer OAM entity). The size of the table is implementation dependent, but when the table becomes full, older events are automatically deleted to make room for newer events. The table index dot3OamEventLogIndex increments for each new entry, and when the maximum value is reached, the value restarts at zero.

"

INDEX { ifIndex, dot3OamEventLogIndex  
}

::= { dot3OamEventLogTable 1 }

Dot3OamEventLogEntry ::=

SEQUENCE {

dot3OamEventLogIndex Unsigned32,  
dot3OamEventLogTimestamp TimeStamp,  
dot3OamEventLogOui EightOTwoOui,  
dot3OamEventLogType Unsigned32,  
dot3OamEventLogLocation INTEGER,  
dot3OamEventLogWindowHi Unsigned32,  
dot3OamEventLogWindowLo Unsigned32,  
dot3OamEventLogThresholdHi Unsigned32,

dot3OamEventLogThresholdLo Unsigned32,  
dot3OamEventLogValue CounterBasedGauge64,  
dot3OamEventLogRunningTotal CounterBasedGauge64,  
dot3OamEventLogEventTotal Unsigned32

}

dot3OamEventLogIndex OBJECT-TYPE

SYNTAX Unsigned32(1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An arbitrary integer for identifying individual events

within the event log. "  
 ::= { dot3OamEventLogEntry 1 }

dot3OamEventLogTimestamp OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The value of sysUpTime at the time of the logged event. For locally generated events, the time of the event can be accurately retrieved from sysUpTime. For remotely generated events, the time of the event is indicated by the reception of the Event Notification OAMPDU indicating that the event occurred on the peer. A system may attempt to adjust the timestamp value to more accurately reflect the time of the event at the peer OAM entity by using other information, such as that found in the timestamp found of the Event Notification TLVs, which provides an indication of the relative time between events at the peer entity. "

::= { dot3OamEventLogEntry 2 }

dot3OamEventLogOui OBJECT-TYPE

SYNTAX  
 EightOTwoOui  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The OUI of the entity defining the object type. All IEEE 802.3 defined events (as appearing in [802.3ah] except for the Organizationally Unique Event TLVs) use the IEEE 802.3 OUI of 0x0180C2. Organizations defining their own Event Notification TLVs include their OUI in the Event Notification TLV that gets reflected here. "

::= { dot3OamEventLogEntry 3 }

dot3OamEventLogType OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of event that generated this entry in the event log. When the OUI is the IEEE 802.3 OUI of 0x0180C2, the following event types are defined:

erroredSymbolEvent(1),  
 erroredFramePeriodEvent(2),

erroredFrameEvent(3),  
erroredFrameSecondsEvent(4),  
linkFault(256),  
dyingGaspEvent(257),  
criticalLinkEvent(258)

The first four are considered threshold crossing events, as they are generated when a metric exceeds a given value within a specified window. The other three are not threshold crossing events.

When the OUI is not 71874 (0x0180C2 in hex), then some other organization has defined the event space. If event subtyping is known to the implementation, it may be reflected here.

Otherwise, this value should return all F's ( $2^{32} - 1$ ).

"

REFERENCE "[802.3ah], 30.3.6.1.10 and 57.5.3."

::= { dot3OamEventLogEntry 4 }

dot3OamEventLogLocation OBJECT-TYPE

SYNTAX INTEGER { local(1), remote(2) }

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Whether this event occurred locally (local(1)), or was received from the OAM peer via Ethernet OAM (remote(2)).

"

::= { dot3OamEventLogEntry 5 }

dot3OamEventLogWindowHi OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventWindowHi and dot3OamEventWindowLo, form an unsigned 64-bit integer yielding the window over which the value was measured for the threshold crossing event (for example, 5, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) \\ + \text{dot3OamEventLogWindowLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 6 }

dot3OamEventLogWindowLo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventWindowHi and dot3OamEventWindowLo form an unsigned 64-bit integer yielding the window over which the value was measured for the threshold crossing event (for example, 5, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 7 }

dot3OamEventLogThresholdHi OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventThresholdHi and dot3OamEventThresholdLo form an unsigned 64-bit integer yielding the value that was crossed for the threshold crossing event (for example, 10, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."



::= { dot3OamEventLogEntry 8 }

dot3OamEventLogThresholdLo OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, the two objects dot3OamEventThresholdHi and dot3OamEventThresholdLo form an unsigned 64-bit integer yielding the value that was crossed for the threshold crossing event (for example, 10, when 11 occurrences happened in 5 seconds while the threshold was 10). The two objects are combined as:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

Otherwise, this value is returned as all F's ( $2^{32} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 9 }

dot3OamEventLogValue OBJECT-TYPE

SYNTAX CounterBasedGauge64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the event represents a threshold crossing event, this value indicates the value of the parameter within the given window that generated this event (for example, 11, when 11 occurrences happened in 5 seconds while the threshold was 10).

Otherwise, this value is returned as all F's ( $2^{64} - 1$ ) and adds no useful information.

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."

::= { dot3OamEventLogEntry 10 }

dot3OamEventLogRunningTotal OBJECT-TYPE

SYNTAX CounterBasedGauge64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Each Event Notification TLV contains a running total of the number of times an event has occurred, as well as the number

of times an Event Notification for the event has been

transmitted. For non-threshold crossing events, the number of events (dot3OamLogRunningTotal) and the number of resultant Event Notifications (dot3OamLogEventTotal) should be identical.

For threshold crossing events, since multiple occurrences may be required to cross the threshold, these values are likely different. This value represents the total number of times this event has happened since the last reset (for example, 3253, when 3253 symbol errors have occurred since the last reset, which has resulted in 51 symbol error threshold crossing events since the last reset).

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."  
::= { dot3OamEventLogEntry 11 }

dot3OamEventLogEventTotal OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Each Event Notification TLV contains a running total of the number of times an event has occurred, as well as the number of times an Event Notification for the event has been transmitted. For non-threshold crossing events, the number of events (dot3OamLogRunningTotal) and the number of resultant Event Notifications (dot3OamLogEventTotal) should be identical.

For threshold crossing events, since multiple occurrences may be required to cross the threshold, these values are likely different. This value represents the total number of times one or more of these

occurrences have resulted in an Event

Notification (for example, 51 when 3253 symbol errors have occurred since the last reset, which has resulted in 51 symbol error threshold crossing events since the last reset).

"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."  
::= { dot3OamEventLogEntry 12 }

-- \*\*\*\*\*

--

-- Ethernet OAM Notifications

--

dot3OamThresholdEvent NOTIFICATION-TYPE

OBJECTS { dot3OamEventLogTimestamp,  
dot3OamEventLogOui,

dot3OamEventLogType,  
dot3OamEventLogLocation,  
dot3OamEventLogWindowHi,  
dot3OamEventLogWindowLo,  
dot3OamEventLogThresholdHi,  
dot3OamEventLogThresholdLo,  
dot3OamEventLogValue,  
dot3OamEventLogRunningTotal,  
dot3OamEventLogEventTotal

}

STATUS current

DESCRIPTION

"A dot3OamThresholdEvent notification is sent when a local or remote threshold crossing event is detected. A local threshold crossing event is detected by the local entity, while a remote threshold crossing event is detected by the reception of an Ethernet OAM Event Notification OAMPDU that indicates a threshold event.

This notification should not be sent more than once per second.

The OAM entity can be derived from extracting the ifIndex from the variable bindings. The objects in the notification correspond to the values in a row instance in the dot3OamEventLogTable.

The management entity should periodically check dot3OamEventLogTable to detect any missed events."

::= { dot3OamNotifications 1 }

dot3OamNonThresholdEvent NOTIFICATION-TYPE

OBJECTS { dot3OamEventLogTimestamp,  
dot3OamEventLogOui,  
dot3OamEventLogType,  
dot3OamEventLogLocation,  
dot3OamEventLogEventTotal

}

STATUS current

DESCRIPTION

"A dot3OamNonThresholdEvent notification is sent when a local or remote non-threshold crossing event is detected. A local event is detected by the local entity, while a remote event is detected by the reception of an Ethernet OAM Event Notification OAMPDU that indicates a non-threshold crossing event.

This notification should not be sent more than once per

second.

The OAM entity can be derived from extracting the ifIndex from the variable bindings. The objects in the notification correspond to the values in a row instance of the dot3OamEventLogTable.

The management entity should periodically check dot3OamEventLogTable to detect any missed events."

::= { dot3OamNotifications 2 }

-- \*\*\*\*\*

--

-- Ethernet OAM Compliance

group

--

dot3OamGroups OBJECT IDENTIFIER ::= { dot3OamConformance 1 }

dot3OamCompliances OBJECT IDENTIFIER ::= { dot3OamConformance 2 }

-- Compliance statements

dot3OamCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION "The compliance statement for managed entities supporting OAM on Ethernet-like interfaces.

"

MODULE -- this module

MANDATORY-GROUPS { dot3OamControlGroup,  
dot3OamPeerGroup,  
dot3OamStatsBaseGroup  
}

GROUP dot3OamLoopbackGroup

DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA

implementations that support loopback functionality. "

GROUP dot3OamErrSymbolPeriodEventGroup

DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA implementations that support event functionality. "

GROUP dot3OamErrFramePeriodEventGroup

DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA implementations that support event functionality. "

GROUP dot3OamErrFrameEventGroup

DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA implementations that support event functionality. "

GROUP dot3OamErrFrameSecsSummaryEventGroup

DESCRIPTION

"This group is mandatory for all IEEE 802.3 OA implementations that support event functionality. "

GROUP dot3OamFlagEventGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. The ability to send critical events or dying gasp events is not required in any system."

GROUP dot3OamEventLogGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. Entries in this table are dependent on what event functionality is supported in the local OA implementation. At least one type of event must be supported for entries to appear in this table. "

GROUP dot3OamNotificationGroup

DESCRIPTION

"This group is optional for all IEEE 802.3 OA implementations. Since the information in the notifications is dependent on the dot3OamEventLogTable, that table must be implemented for notifications. "

::= { dot3OamCompliances 1 }

dot3OamControlGroup OBJECT-GROUP

```
OBJECTS { dot3OamAdminState,
          dot3OamOperStatus,
          dot3OamMode,
          dot3OamMaxOamPduSize,
          dot3OamConfigRevision,
          dot3OamFunctionsSupported
        }
STATUS   current
DESCRIPTION
  "A collection of objects providing the abilities,
  configuration, and status of an Ethernet OAM entity. "
 ::= { dot3OamGroups 1 }
```

dot3OamPeerGroup OBJECT-GROUP

```
OBJECTS { dot3OamPeerMacAddress,

          dot3OamPeerVendorOui,

          dot3OamPeerVendorInfo,
          dot3OamPeerMode,
          dot3OamPeerFunctionsSupported,
          dot3OamPeerMaxOamPduSize,
          dot3OamPeerConfigRevision
        }
STATUS   current
DESCRIPTION
  "A collection of objects providing the abilities,
  configuration, and status of a peer Ethernet OAM entity. "
 ::= { dot3OamGroups 2 }
```

dot3OamStatsBaseGroup OBJECT-GROUP

```
OBJECTS { dot3OamInformationTx,
          dot3OamInformationRx,
          dot3OamUniqueEventNotificationTx,
          dot3OamUniqueEventNotificationRx,
          dot3OamDuplicateEventNotificationTx,
          dot3OamDuplicateEventNotificationRx,
          dot3OamLoopbackControlTx,
          dot3OamLoopbackControlRx,
          dot3OamVariableRequestTx,
          dot3OamVariableRequestRx,
          dot3OamVariableResponseTx,
          dot3OamVariableResponseRx,
          dot3OamOrgSpecificTx,
```

```
dot3OamOrgSpecificRx,  
dot3OamUnsupportedCodesTx,  
dot3OamUnsupportedCodesRx,  
dot3OamFramesLostDueToOam  
}
```

STATUS current

DESCRIPTION

"A collection of objects providing the statistics for the number of various transmit and receive events for OAM on an Ethernet-like interface. Note that all of these counters must be supported even if the related function (as described in dot3OamFunctionsSupported) is not supported. "

::= { dot3OamGroups 3 }

dot3OamLoopbackGroup OBJECT-GROUP

```
OBJECTS { dot3OamLoopbackStatus,  
dot3OamLoopbackIgnoreRx  
}
```

STATUS current

DESCRIPTION

"A collection of objects for controlling the OAM remote

loopback function. "

::= { dot3OamGroups 4 }

dot3OamErrSymbolPeriodEventGroup OBJECT-GROUP

```
OBJECTS { dot3OamErrSymPeriodWindowHi,  
dot3OamErrSymPeriodWindowLo,  
dot3OamErrSymPeriodThresholdHi,  
dot3OamErrSymPeriodThresholdLo,  
dot3OamErrSymPeriodEvNotifEnable  
}
```

STATUS current

DESCRIPTION

"A collection of objects for configuring the thresholds for an Errored Symbol Period Event.

Each [802.3ah] defined Event Notification TLV has its own conformance group because each event can be implemented independently of any other. "

::= { dot3OamGroups 5 }

dot3OamErrFramePeriodEventGroup OBJECT-GROUP

```
OBJECTS { dot3OamErrFramePeriodWindow,  
dot3OamErrFramePeriodThreshold,
```

```

        dot3OamErrFramePeriodEvNotifEnable
    }
STATUS    current
DESCRIPTION
    "A collection of objects for
configuring the thresholds for an
    Errored Frame Period Event.

    Each [802.3ah] defined Event Notification TLV has its own
conformance group because each event can be implemented
independently of any other. "
::= { dot3OamGroups 6 }

```

```

dot3OamErrFrameEventGroup OBJECT-GROUP
OBJECTS   { dot3OamErrFrameWindow,
            dot3OamErrFrameThreshold,
            dot3OamErrFrameEvNotifEnable
          }
STATUS    current
DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Event.

    Each [802.3ah] defined Event Notification TLV has its own
conformance group because each event can be implemented
independently of any other. "

::= { dot3OamGroups 7 }

```

```

dot3OamErrFrameSecsSummaryEventGroup OBJECT-GROUP
OBJECTS   { dot3OamErrFrameSecsSummaryWindow,
            dot3OamErrFrameSecsSummaryThreshold,
            dot3OamErrFrameSecsEvNotifEnable
          }
STATUS    current
DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event.

    Each [802.3ah] defined Event Notification TLV has its own
conformance group because each event can be implemented
independently of any other. "
::= { dot3OamGroups 8 }

```

```

dot3OamFlagEventGroup OBJECT-GROUP
OBJECTS   { dot3OamDyingGaspEnable,

```



```

        dot3OamCriticalEventEnable
    }
STATUS    current
DESCRIPTION
    "A collection of objects for configuring the sending OAMPDUs
    with the critical event flag or dying gasp flag enabled. "
 ::= { dot3OamGroups 9 }

dot3OamEventLogGroup OBJECT-GROUP
OBJECTS { dot3OamEventLogTimestamp,
    dot3OamEventLogOui,
    dot3OamEventLogType,
    dot3OamEventLogLocation,
    dot3OamEventLogWindowHi,
    dot3OamEventLogWindowLo,
    dot3OamEventLogThresholdHi,
    dot3OamEventLogThresholdLo,
    dot3OamEventLogValue,
    dot3OamEventLogRunningTotal,
    dot3OamEventLogEventTotal
    }
STATUS    current
DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event and maintaining the event
    information. "
 ::= { dot3OamGroups 10 }

dot3OamNotificationGroup NOTIFICATION-GROUP

NOTIFICATIONS {
    dot3OamThresholdEvent,
    dot3OamNonThresholdEvent
    }
STATUS    current
DESCRIPTION
    "A collection of notifications used by Ethernet OAM to signal
    to a management entity that local or remote events have
    occurred on a specified Ethernet link. "
 ::= { dot3OamGroups 11 }

END

```

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB

No license file was found, but licenses were detected in source scan.

SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY,  
OBJECT-TYPE,  
NOTIFICATION-TYPE,  
Counter32,  
Gauge32,  
TimeTicks,  
Unsigned32,

mib-2  
FROM SNMPv2-SMI -- RFC 2578

RowStatus,  
TimeStamp,  
TruthValue  
FROM SNMPv2-TC -- RFC 2579

MODULE-COMPLIANCE,  
OBJECT-GROUP,  
NOTIFICATION-GROUP  
FROM SNMPv2-CONF -- RFC 2580

SnmpAdminString  
FROM SNMP-FRAMEWORK-MIB -- RFC 3411

SipTCTransportProtocol,  
SipTCMethodName,  
SipTCEntityRole,  
SipTCOptionTagHeaders  
FROM SIP-TC-MIB -- RFC 4780

applIndex  
FROM NETWORK-SERVICES-MIB -- RFC 2788

InetPortNumber  
FROM INET-ADDRESS-MIB; -- RFC 4001

sipCommonMIB MODULE-IDENTITY  
LAST-UPDATED "200704200000Z"  
ORGANIZATION "IETF Session Initiation Protocol Working Group"  
CONTACT-INFO  
"SIP WG email: sip@ietf.org"

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#### DESCRIPTION

"Session Initiation Protocol (SIP) Common MIB module. This module defines objects that may be common to all SIP entities.

SIP is an application-layer signaling protocol for creating, modifying and terminating multimedia sessions with one or more participants. These sessions include Internet multimedia conferences and Internet telephone calls. SIP is defined in RFC 3261 (June 2002).

This MIB is defined for managing objects that are common to SIP User Agents (UAs), Proxy, Redirect, and Registrar servers. Objects specific to each of these entities MAY be managed using entity specific MIBs defined in other modules.

Copyright (C) The IETF Trust (2007). This version of this MIB module is part of RFC 4780; see the RFC itself for full legal notices."

REVISION "200704200000Z"

#### DESCRIPTION

"Initial version of the IETF SIP-COMMON-MIB module. This version published as part of RFC 4780."

::= { mib-2 149 }

```

-- Top-Level Components of this MIB.
sipCommonMIBNotifications OBJECT IDENTIFIER
 ::= { sipCommonMIB 0 }
sipCommonMIBObjects    OBJECT IDENTIFIER ::= { sipCommonMIB 1 }
sipCommonMIBConformance OBJECT IDENTIFIER ::= { sipCommonMIB 2 }

--
-- This MIB contains objects that are common to all SIP entities.
--

-- Common basic configuration
sipCommonCfgBase    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 1 }

-- Protocol timer configuration
sipCommonCfgTimer    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 2 }

-- SIP message summary statistics

sipCommonSummaryStats OBJECT IDENTIFIER ::= { sipCommonMIBObjects 3 }

-- Per method statistics
sipCommonMethodStats OBJECT IDENTIFIER ::= { sipCommonMIBObjects 4 }

-- Per Status code or status code class statistics
sipCommonStatusCode OBJECT IDENTIFIER ::= { sipCommonMIBObjects 5 }

-- Transaction statistics
sipCommonStatsTrans OBJECT IDENTIFIER ::= { sipCommonMIBObjects 6 }

-- Method retry statistics
sipCommonStatsRetry OBJECT IDENTIFIER ::= { sipCommonMIBObjects 7 }

-- Other statistics
sipCommonOtherStats
  OBJECT IDENTIFIER ::= { sipCommonMIBObjects 8 }

-- Accessible-for-notify objects
sipCommonNotifObjects OBJECT IDENTIFIER ::= { sipCommonMIBObjects 9 }

--
-- Common Configuration Objects
--
sipCommonCfgTable OBJECT-TYPE
  SYNTAX    SEQUENCE OF SipCommonCfgEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION

```

"This table contains the common configuration objects applicable to all SIP entities."

```
::= { sipCommonCfgBase 1 }
```

sipCommonCfgEntry OBJECT-TYPE

SYNTAX SipCommonCfgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of common configuration.

Each row represents objects for a particular SIP entity instance present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex }

```
::= { sipCommonCfgTable 1
```

```
}
```

SipCommonCfgEntry ::= SEQUENCE {

sipCommonCfgProtocolVersion SnmpAdminString,

sipCommonCfgServiceOperStatus INTEGER,

sipCommonCfgServiceStartTime TimeTicks,

sipCommonCfgServiceLastChange TimeTicks,

sipCommonCfgOrganization SnmpAdminString,

sipCommonCfgMaxTransactions Unsigned32,

sipCommonCfgServiceNotifEnable BITS,

sipCommonCfgEntityType SipTCEntityType

```
}
```

sipCommonCfgProtocolVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will reflect the version of SIP supported by this SIP entity. It will follow the same format as SIP version information contained in the SIP messages generated by this SIP entity. For example, entities supporting SIP version 2 will return 'SIP/2.0' as dictated by the standard."

REFERENCE

"RFC 3261, Section 7.1"

```
::= { sipCommonCfgEntry
```

```
1 }
```

sipCommonCfgServiceOperStatus OBJECT-TYPE

```
SYNTAX    INTEGER {
        unknown(1),
        up(2),
        down(3),
        congested(4),
        restarting(5),
        quiescing(6),
        testing(7)
    }
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the current operational state of the SIP application.

unknown : The operational status cannot be determined for some reason.

up : The application is operating normally and is processing (receiving and possibly issuing) SIP requests and responses.

down : The application is currently unable to process SIP messages.

congested : The application is operational but no additional

inbound transactions can be accommodated at the moment.

restarting : The application is currently unavailable, but it is in the process of restarting and will presumably, soon be able to process SIP messages.

quiescing : The application is currently operational but has been administratively put into quiescence mode. Additional inbound transactions MAY be rejected.

testing : The application is currently in test mode and MAY not be able to process SIP messages.

The operational status values defined for this object are not based on any specific information contained in the SIP standard."

```
::= { sipCommonCfgEntry 2 }
```

sipCommonCfgServiceStartTime OBJECT-TYPE

```
SYNTAX    TimeTicks
```

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of sysUpTime at the time the SIP entity was last started. If started prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."

::= { sipCommonCfgEntry 3 }

#### sipCommonCfgServiceLastChange OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of sysUpTime at the time the SIP entity entered its current operational state. If the current state was entered prior to the last re-initialization of the local network management subsystem, then this object contains a zero value."

::= { sipCommonCfgEntry 4 }

#### sipCommonCfgOrganization OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object contains the organization name that the SIP entity inserts into Organization headers of SIP messages processed by this system. If the string is empty, no Organization header is to be generated."

#### REFERENCE

"RFC 3261, Section 20.25"

::= { sipCommonCfgEntry 5 }

#### sipCommonCfgMaxTransactions OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object indicates the maximum number of simultaneous transactions per second that the SIP entity can manage. In general, the value of this object SHOULD reflect a level of transaction processing per second that is considered high enough to impact the system's CPU and/or memory resources to the point of deteriorating SIP call processing but not high enough to cause catastrophic system failure."

::= { sipCommonCfgEntry 6 }

sipCommonCfgServiceNotifEnable OBJECT-TYPE

SYNTAX BITS {  
    sipCommonServiceColdStart(0),  
    sipCommonServiceWarmStart(1),  
    sipCommonServiceStatusChanged(2)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies which SIP service related notifications are enabled. Each bit represents a specific notification. If a bit has a value 1, the associated notification is enabled and will be generated by the SIP entity at the appropriate time.

Support for these notifications is OPTIONAL: either none or all notification values are supported. If an implementation does not support this object, it should return a 'noSuchObject' exception to an SNMP GET operation. If notifications are supported, this object's default value SHOULD reflect sipCommonServiceColdStart and sipCommonServiceWarmStart enabled and sipCommonServiceStatusChanged disabled.

This object value SHOULD persist across reboots."

DEFVAL { { sipCommonServiceColdStart,  
          sipCommonServiceWarmStart } }

::= { sipCommonCfgEntry 7 }

sipCommonCfgEntityType OBJECT-TYPE

SYNTAX SipTCEntityRole

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object identifies the list of SIP entities to which this row is related. It is defined as a bit map. Each bit represents a type of SIP entity. If a bit has value 1, the SIP entity represented by this row plays the role of this entity type. If a bit has value 0, the SIP entity represented by this row does not act as this entity type. Combinations of bits can be set when the SIP entity plays multiple SIP roles."

::= { sipCommonCfgEntry 8 }

--



-- Support for multiple ports

--

sipCommonPortTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonPortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the list of ports that each SIP entity in this system is allowed to use. These ports can be advertised using the Contact header in a REGISTER request or response."

::= {

sipCommonCfgBase 2 }

sipCommonPortEntry OBJECT-TYPE

SYNTAX SipCommonPortEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Specification of a particular port.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonPort }

::= { sipCommonPortTable 1 }

SipCommonPortEntry ::= SEQUENCE {

sipCommonPort InetPortNumber,

sipCommonPortTransportRcv SipTCTransportProtocol

}

sipCommonPort OBJECT-TYPE

SYNTAX InetPortNumber (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object reflects a particular port that can be used by the SIP application."

::= { sipCommonPortEntry 1 }

sipCommonPortTransportRcv

OBJECT-TYPE

SYNTAX SipTCTransportProtocol

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object will specify the transport protocol the SIP entity will use to receive SIP messages.

This object is a bit map. Each bit represents a transport protocol. If a bit has value 1, then that transport protocol is currently being used. If a bit has value 0, then that transport protocol is currently not being used."

::= { sipCommonPortEntry 2 }

--

-- Support for SIP option tags (SIP extensions).

-- SIP extensions MAY be supported or required by SIP entities.

--

sipCommonOptionTagTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonOptionTagEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of the SIP option tags (SIP extensions) that are either required, supported, or unsupported by the SIP entity. These option tags are used in the Require, Proxy-Require, Supported, and Unsupported header fields.

Example: If a user agent client supports, and requires the server to support, reliability of provisional responses (RFC 3262), this table contains a row with the option tag string '100rel' in sipCommonOptionTag and the OCTET STRING value of '1010 0000' or '0xA0' in sipCommonOptionTagHeaderField.

If a server does not support the required feature (indicated in a Require header to a UAS, or in a Proxy-Require to a Proxy Server), the server returns a 420 Bad Extension listing the feature in an Unsupported header.

Normally, the list of such features supported by an entity is static (i.e., will not change over time)."

REFERENCE

"RFC 3261, Sections 19.2, 20.32, 20.29, 20.37, and 20.40"

::= { sipCommonCfgBase 3 }

sipCommonOptionTagEntry OBJECT-TYPE

SYNTAX SipCommonOptionTagEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A particular SIP option tag (extension) supported or unsupported by the SIP entity, and which may be supported or required by a peer.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonOptionTagIndex }

::= { sipCommonOptionTagTable 1 }

```
SipCommonOptionTagEntry ::= SEQUENCE {
    sipCommonOptionTagIndex    Unsigned32,
    sipCommonOptionTag         SnmpAdminString,
    sipCommonOptionTagHeaderField SipTCOptionTagHeaders
}
```

sipCommonOptionTagIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

::= { sipCommonOptionTagEntry 1 }

sipCommonOptionTag OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the SIP option tag. The option tag names are registered with IANA and available at <http://www.iana.org>."

REFERENCE "RFC 3261, Section 27.1"

::= { sipCommonOptionTagEntry 2 }

sipCommonOptionTagHeaderField OBJECT-TYPE

SYNTAX SipTCOptionTagHeaders

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates whether the SIP option tag is supported (Supported header), unsupported (Unsupported header), or required (Require or Proxy-Require header) by the SIP entity.

A SIP option tag may be both supported and required."

::= { sipCommonOptionTagEntry 3 }

--

-- Supported SIP Methods

--

sipCommonMethodSupportedTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of methods supported by each SIP entity in this system (see the standard set of SIP methods in Section 7.1 of RFC 3261). Any additional methods that may be incorporated into the SIP protocol can be represented by this table without any requirement to update this MIB module.

The table is informational in nature and conveys capabilities of the managed system to the SNMP Manager.

From a protocol point of view, the list of methods advertised by the SIP entity in the Allow header (Section 20.5 of RFC 3261) MUST be consistent with the methods reflected in this table."

::= { sipCommonCfgBase 4 }

sipCommonMethodSupportedEntry OBJECT-TYPE

SYNTAX SipCommonMethodSupportedEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A particular method supported by the SIP entity.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonMethodSupportedIndex }

::= { sipCommonMethodSupportedTable 1 }

SipCommonMethodSupportedEntry ::= SEQUENCE {

sipCommonMethodSupportedIndex Unsigned32,

sipCommonMethodSupportedName SipTCMethodName

}

sipCommonMethodSupportedIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies a conceptual row in the table and reflects an assigned number used to identify a specific SIP method.

This identifier is suitable for referencing the associated method throughout this and other MIBs supported by this managed system."

::= { sipCommonMethodSupportedEntry 1 }

sipCommonMethodSupportedName OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the supported method's name. The method name MUST be all upper case (e.g., 'INVITE')."

::= { sipCommonMethodSupportedEntry 2 }

--

-- SIP Timer Configuration

--

sipCommonCfgTimerTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonCfgTimerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains timer configuration objects applicable to SIP user agent and SIP stateful Proxy Server entities."

::= { sipCommonCfgTimer 1 }

sipCommonCfgTimerEntry OBJECT-TYPE

SYNTAX SipCommonCfgTimerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of timer configuration.

Each row represents those objects for a particular SIP entity present

in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788). The objects in this table entry SHOULD be non-volatile and their value SHOULD be kept at reboot."

```
INDEX { applIndex }
 ::= { sipCommonCfgTimerTable 1 }
```

```
SipCommonCfgTimerEntry ::= SEQUENCE {
    sipCommonCfgTimerA      Unsigned32,
    sipCommonCfgTimerB      Unsigned32,
    sipCommonCfgTimerC      Unsigned32,
    sipCommonCfgTimerD      Unsigned32,
    sipCommonCfgTimerE      Unsigned32,
    sipCommonCfgTimerF      Unsigned32,
    sipCommonCfgTimerG      Unsigned32,
    sipCommonCfgTimerH      Unsigned32,
    sipCommonCfgTimerI      Unsigned32,
    sipCommonCfgTimerJ      Unsigned32,
    sipCommonCfgTimerK      Unsigned32,

    sipCommonCfgTimerT1     Unsigned32,
    sipCommonCfgTimerT2     Unsigned32,
    sipCommonCfgTimerT4     Unsigned32
}
```

sipCommonCfgTimerA OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for the INVITE method. The retransmit timer doubles after each retransmission, ensuring an exponential backoff in network traffic. This object represents the initial time a SIP entity will wait to receive a provisional response to an INVITE before resending the INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 500 }

```
::= { sipCommonCfgTimerEntry 1 }
```

sipCommonCfgTimerB OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to an INVITE. The timer is started upon transmission of the initial INVITE request."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }  
::= { sipCommonCfgTimerEntry 2 }

sipCommonCfgTimerC OBJECT-TYPE

SYNTAX Unsigned32 (180000..300000)  
UNITS "milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object reflects the maximum time a SIP Proxy Server will wait to receive a provisional response to an INVITE. The Timer C MUST be set for each client transaction when an INVITE request is proxied."

REFERENCE

"RFC 3261, Section 16.6"

DEFVAL { 180000 }  
::= { sipCommonCfgTimerEntry 3 }

sipCommonCfgTimerD OBJECT-TYPE

SYNTAX Unsigned32 (0..300000)  
UNITS "milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This object reflects the amount of time that the server transaction can remain in the 'Completed' state when unreliable transports are used. The default value MUST be equal to or greater than 32000 for UDP transport, and its value MUST be 0 for TCP/SCTP transport."

REFERENCE

"RFC 3261, Section 17.1.1.2"

DEFVAL { 32000 }  
::= { sipCommonCfgTimerEntry 4 }

sipCommonCfgTimerE OBJECT-TYPE

SYNTAX Unsigned32 (100..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for a non-INVITE method while in 'Trying' state. The retransmit timer doubles after each retransmission until it reaches T2 to ensure an exponential backoff in network traffic. This object represents the initial time a SIP entity will wait to receive a provisional response to the request before resending the non-INVITE

request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 5 }

sipCommonCfgTimerF OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive a final response to a non-INVITE request. The timer is started upon transmission of the initial request."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 6 }

sipCommonCfgTimerG OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the initial value for the retransmit timer for final responses to INVITE requests. If timer G fires, the response is passed to the transport layer again for retransmission,



and timer G is set to fire in  $\text{MIN}(2 * T1, T2)$  seconds. From then on, when timer G fires, the response is passed to the transport again for transmission, and timer G is reset with a value that doubles, unless that value exceeds T2, in which case, it is reset with the value of T2. The default value MUST be T1 for UDP transport, and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 500 }

::= { sipCommonCfgTimerEntry 7 }

sipCommonCfgTimerH OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a server will wait to receive an ACK before it abandons retransmitting the response.

The timer is started upon entering the 'Completed' state."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 32000 }

::=

{ sipCommonCfgTimerEntry 8 }

sipCommonCfgTimerI OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP entity will wait to receive additional ACK message retransmissions.

The timer is started upon entering the 'Confirmed' state. The default value MUST be T4 for UDP transport and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.2.1"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 9 }

sipCommonCfgTimerJ OBJECT-TYPE

SYNTAX Unsigned32 (32000..300000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP server will wait to receive retransmissions of non-INVITE requests. The timer is started upon entering the 'Completed' state for non-INVITE transactions. When timer J fires, the server MUST transition to the 'Terminated' state."

REFERENCE

"RFC 3261, Section 17.2.2"

DEFVAL { 32000 }

::= { sipCommonCfgTimerEntry 10 }

sipCommonCfgTimerK OBJECT-TYPE

SYNTAX Unsigned32 (0..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the maximum time a SIP client will wait to receive retransmissions of responses to non-INVITE requests. The timer is started upon entering the 'Completed' state for

non-INVITE transactions. When timer K fires, the server MUST transition to the 'Terminated' state. The default value MUST be T4 for UDP transport, and its value MUST be 0 for reliable transport like TCP/SCTP."

REFERENCE

"RFC 3261, Section 17.1.2.2"

DEFVAL { 5000 }

::= { sipCommonCfgTimerEntry 11 }

sipCommonCfgTimerT1 OBJECT-TYPE

SYNTAX

Unsigned32 (200..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T1 timer for a SIP entity. T1 is an estimate of the round-trip time (RTT) between the client and server transactions."

REFERENCE

"RFC 3261, Section 17"

```
DEFVAL { 500 }
::= { sipCommonCfgTimerEntry 12 }
```

sipCommonCfgTimerT2 OBJECT-TYPE

SYNTAX Unsigned32 (200..10000)

UNITS "milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T2 timer for a SIP entity. T2 is the maximum retransmit interval for non-INVITE requests and INVITE responses. It's used in various parts of the protocol to reset other Timer\* objects to this value."

REFERENCE

"RFC 3261, Section 17"

DEFVAL { 4000 }

```
::= { sipCommonCfgTimerEntry 13 }
```

sipCommonCfgTimerT4 OBJECT-TYPE

SYNTAX Unsigned32 (200..10000)

UNITS

"milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the T4 timer for a SIP entity. T4 is the maximum duration a message will remain in the network. It represents the amount of time the network will take to clear messages between client and server transactions. It's used in

various parts of the protocol to reset other Timer\* objects to this value."

REFERENCE

"RFC 3261, Section 17"

DEFVAL { 5000 }

```
::= { sipCommonCfgTimerEntry 14 }
```

--

-- Common Statistics Objects

--

--

-- Summary Statistics

--

sipCommonSummaryStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the summary statistics objects applicable to all SIP entities. Each row represents those objects for a particular SIP entity present in this system."

::= {

sipCommonSummaryStats 1 }

sipCommonSummaryStatsEntry OBJECT-TYPE

SYNTAX SipCommonSummaryStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of summary statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex }

::= { sipCommonSummaryStatsTable 1 }

SipCommonSummaryStatsEntry ::= SEQUENCE {

    sipCommonSummaryInRequests Counter32,  
    sipCommonSummaryOutRequests Counter32,  
    sipCommonSummaryInResponses Counter32,  
    sipCommonSummaryOutResponses Counter32,  
    sipCommonSummaryTotalTransactions Counter32,  
    sipCommonSummaryDisconTime TimeStamp  
}

sipCommonSummaryInRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the total number of SIP request messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 1 }

sipCommonSummaryOutRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP request messages sent out (originated and relayed) by the SIP entity. Where a particular message is sent more than once, for example as a retransmission or as a result of forking, each transmission is counted separately.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 2 }

sipCommonSummaryInResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

::= { sipCommonSummaryStatsEntry 3 }

sipCommonSummaryOutResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains the total number of SIP response messages sent (originated and relayed) by the SIP entity including retransmissions.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same row."

```
::= { sipCommonSummaryStatsEntry 4 }
```

sipCommonSummaryTotalTransactions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains a count of the number of transactions that are in progress and transactions that have reached the 'Terminated' state. It is not applicable to stateless SIP Proxy Servers.

A SIP transaction occurs between a client and a server, and comprises all messages from the first request sent from the client to the server, up to a final (non-1xx) response sent from the server to the client.

If the request is INVITE and the final response is a non-2xx, the transaction also include an ACK to the response. The ACK for a 2xx response to an INVITE request is a separate transaction.

The branch ID parameter in the Via header field values serves as a transaction identifier.

A transaction is identified by the CSeq sequence number within a single call leg. The ACK request has the same CSeq number as the corresponding INVITE request, but comprises a transaction of its own.

In the case of a forked request, each branch counts as a single transaction.

For a transaction stateless Proxy Server, this counter is always 0.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management

Station can detect discontinuities in this counter by monitoring the sipCommonSummaryDisconTime object in the same

```

    row."
 ::= { sipCommonSummaryStatsEntry 5 }

sipCommonSummaryDisconTime OBJECT-TYPE
    SYNTAX    TimeStamp
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION
        "The value of the sysUpTime object when the counters for the
        summary statistics objects in this row last experienced a
        discontinuity."
 ::= { sipCommonSummaryStatsEntry 6 }

--
-- SIP Method Statistics
-- Total counts for each SIP method.
--

sipCommonMethodStatsTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF SipCommonMethodStatsEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "This table contains the method statistics objects for SIP
        entities. Each row represents those objects for a particular
        SIP entity present in this system."
 ::= { sipCommonMethodStats 1 }

sipCommonMethodStatsEntry OBJECT-TYPE

    SYNTAX    SipCommonMethodStatsEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "A row of per entity method statistics.

        Each row represents those objects for a particular SIP entity
        present in this system. applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
```

```

    INDEX { applIndex, sipCommonMethodStatsName }
 ::= { sipCommonMethodStatsTable 1 }

```

```

SipCommonMethodStatsEntry ::= SEQUENCE {
    sipCommonMethodStatsName SipTCMethodName,
    sipCommonMethodStatsOutbounds Counter32,

```

sipCommonMethodStatsInbounds Counter32,  
    sipCommonMethodStatsDisconTime TimeStamp

}

sipCommonMethodStatsName OBJECT-TYPE

SYNTAX SipTCMethodName

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object uniquely identifies the SIP method related to the

objects in a particular row."

::= { sipCommonMethodStatsEntry 1 }

sipCommonMethodStatsOutbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests sent by the SIP entity, excluding retransmissions. Retransmissions are counted separately and are not reflected in this counter. A Management Station can detect discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 2 }

sipCommonMethodStatsInbounds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object reflects the total number of requests received by the SIP entity. Retransmissions are counted separately and are not reflected in this counter. A Management Station

can detect

discontinuities in this counter by monitoring the sipCommonMethodStatsDisconTime object in the same row."

REFERENCE

"RFC 3261, Section 7.1"

::= { sipCommonMethodStatsEntry 3 }

sipCommonMethodStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only



STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the method statistics objects in this row last experienced a discontinuity."

::= { sipCommonMethodStatsEntry 4 }

--

-- Support for specific status codes

--

sipCommonStatusCodeTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the list of SIP status codes that each SIP entity in this system has been requested to monitor. It is the mechanism by which specific status codes are monitored.

Entries created in this table

must not persist across reboots."

::= { sipCommonStatusCode 1 }

sipCommonStatusCodeEntry OBJECT-TYPE

SYNTAX SipCommonStatusCodeEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This row contains information on a particular SIP status code that the SIP entity has been requested to monitor. Entries created in this table must not persist across reboots.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatusCodeMethod,  
sipCommonStatusCodeValue }

::= { sipCommonStatusCodeTable 1 }

SipCommonStatusCodeEntry ::= SEQUENCE {

sipCommonStatusCodeMethod SipTCMethodName,

sipCommonStatusCodeValue Unsigned32,

sipCommonStatusCodeIns

Counter32,

sipCommonStatusCodeOuts Counter32,

```
    sipCommonStatusCodeRowStatus RowStatus,  
    sipCommonStatusCodeDisconTime TimeStamp  
}
```

sipCommonStatusCodeMethod OBJECT-TYPE

```
SYNTAX SipTCMethodName  
MAX-ACCESS not-accessible
```

```
STATUS current
```

DESCRIPTION

"This object uniquely identifies a conceptual row in the table."

```
::= { sipCommonStatusCodeEntry 1 }
```

sipCommonStatusCodeValue OBJECT-TYPE

```
SYNTAX Unsigned32 (100..999)  
MAX-ACCESS not-accessible
```

```
STATUS current
```

DESCRIPTION

"This object contains a SIP status code value that the SIP entity has been requested to monitor. All of the other information in the row is related to this value."

```
::= { sipCommonStatusCodeEntry 2 }
```

sipCommonStatusCodeIns OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only
```

```
STATUS current
```

DESCRIPTION

"This object reflects the total number of response messages received by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of the status code is temporarily disabled. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

```
::= { sipCommonStatusCodeEntry 3 }
```

sipCommonStatusCodeOuts OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only
```

```
STATUS current
```

## DESCRIPTION

"This object reflects the total number of response messages sent by the SIP entity with the status code value contained in the sipCommonStatusCodeValue column.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service, or when the monitoring of the Status code is temporarily disabled. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatusCodeDisconTime object in the same row."

::= { sipCommonStatusCodeEntry 4 }

## sipCommonStatusCodeRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The row augmentation in sipCommonStatusCodeNotifTable will be governed by the value of this RowStatus.

The values 'createAndGo' and 'destroy' are the only valid values allowed for this object. If a row exists, it will reflect a status of 'active' when queried."

::= { sipCommonStatusCodeEntry 5 }

## sipCommonStatusCodeDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"The value of the sysUpTime object when the counters for the status code statistics objects in this row last experienced a discontinuity."

::= { sipCommonStatusCodeEntry 6 }

--

-- Support for specific status code notifications

--

## sipCommonStatusCodeNotifTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table contains objects to control notifications related to particular status codes that each SIP entity in this system has been requested to monitor.

There is an entry in this table corresponding to each entry in sipCommonStatusCodeTable. Therefore, this table augments sipCommonStatusCodeTable and utilizes the same index methodology.

The objects in this table are not included directly in the sipCommonStatusCodeTable simply to keep the status code notification control objects separate from the actual status code statistics."

::= { sipCommonStatusCode 2 }

## sipCommonStatusCodeNotifEntry OBJECT-TYPE

### SYNTAX

SipCommonStatusCodeNotifEntry

MAX-ACCESS not-accessible

STATUS current

### DESCRIPTION

"This row contains information controlling notifications for a particular SIP status code that the SIP entity has been requested to monitor."

AUGMENTS { sipCommonStatusCodeEntry }

::= { sipCommonStatusCodeNotifTable 1 }

```
SipCommonStatusCodeNotifEntry ::= SEQUENCE {  
    sipCommonStatusCodeNotifSend    TruthValue,  
    sipCommonStatusCodeNotifEmitMode INTEGER,  
    sipCommonStatusCodeNotifThresh  Unsigned32,  
    sipCommonStatusCodeNotifInterval Unsigned32  
}
```

## sipCommonStatusCodeNotifSend OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

### DESCRIPTION

"This object controls whether a sipCommonStatusCodeNotif is emitted when the status code value specified by sipCommonStatusCodeValue is sent or received. If the value of this object is 'true', then a notification

is sent. If it is

'false', no notification is sent.

Note well that a notification MAY be emitted for every message sent or received that contains the particular status code. Depending on the status code involved, this can cause a significant number of notification emissions that could be detrimental to network performance. Managers are forewarned to be prudent in the use of this object to enable notifications. Look to sipCommonStatusCodeNotifEmitMode for alternative controls for sipCommonStatusCodeNotif emissions."

```
DEFVAL { false }  
::= { sipCommonStatusCodeNotifEntry 1 }
```

sipCommonStatusCodeNotifEmitMode OBJECT-TYPE

```
SYNTAX INTEGER {  
    normal(1),  
    oneShot(2),  
    triggered(3) -- read-only  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The object sipCommonStatusCodeNotifSend MUST be set to 'true' for the values of this object to have any effect. It is RECOMMENDED that the desired emit mode be established by this object prior to setting sipCommonStatusCodeNotifSend to 'true'. This object and the sipCommonStatusCodeNotifSend object can obviously be set independently, but their respective values will have a dependency on each other and the resulting notifications.

This object specifies the mode for emissions of sipCommonStatusCodeNotif notifications.

**normal** : sipCommonStatusCodeNotif notifications will be emitted by the system for each SIP response message sent or received that contains the desired status code.

**oneShot** : Only one sipCommonStatusCodeNotif notification will be emitted. It will be the next SIP response message sent or received that contains the desired status code.

No more notifications are emitted until this object is set to 'oneShot' again or set to

'normal'. This option is provided as a means of quelling the potential promiscuous behavior that can be associated with the sipCommonStatusCodeNotif.

triggered : This value is only readable and cannot be set. It reflects that the 'oneShot' case has occurred, and indicates that the mode needs to be reset to get further notifications. The mode is reset by setting this object to 'oneShot' or 'normal'."

DEFVAL { oneShot }

::= { sipCommonStatusCodeNotifEntry 2 }

sipCommonStatusCodeNotifThresh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the number of response messages sent or

received by this system that are considered excessive. Based on crossing that threshold, a sipCommonStatusCodeThreshExceededInNotif notification or a sipCommonStatusCodeThreshExceededOutNotif will be sent. The sipCommonStatusCodeThreshExceededInNotif and

sipCommonStatusCodeThreshExceededOutNotif notifications can be used as an early warning mechanism in lieu of using sipCommonStatusCodeNotif.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

DEFVAL { 500 }

::= { sipCommonStatusCodeNotifEntry 3 }

sipCommonStatusCodeNotifInterval OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the time interval over which, if sipCommonStatusCodeThresh is exceeded with respect to sent or received messages, a sipCommonStatusCodeThreshExceededInNotif or sipCommonStatusCodeThreshExceededOutNotif notification will be sent.

Note that the configuration applied by this object will be applied equally to inbound and outbound response messages."

```

DEFVAL { 60 }
 ::= { sipCommonStatusCodeNotifEntry 4 }

--
-- Transaction Statistics
--
sipCommonTransCurrentTable OBJECT-TYPE
    SYNTAX    SEQUENCE OF SipCommonTransCurrentEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "This table contains information on the transactions currently
        awaiting definitive responses by each SIP entity in this
        system.

        This table does not apply to transaction stateless Proxy
        Servers."
    ::= { sipCommonStatsTrans 1 }

sipCommonTransCurrentEntry OBJECT-TYPE
    SYNTAX    SipCommonTransCurrentEntry
    MAX-ACCESS not-accessible
    STATUS    current
    DESCRIPTION
        "Information on a particular SIP entity's current transactions.

        Each row represents those objects for a particular SIP entity
        present in this system.  applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex }
    ::= { sipCommonTransCurrentTable 1 }

SipCommonTransCurrentEntry ::= SEQUENCE {
    sipCommonTransCurrentactions Gauge32
}

sipCommonTransCurrentactions OBJECT-TYPE
    SYNTAX    Gauge32 (0..4294967295)
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION
        "This object contains the number of transactions awaiting

```

definitive (non-1xx) response. In the case of a forked request, each branch counts as a single transaction corresponding to the entity identified by applIndex."  
 ::= { sipCommonTransCurrentEntry 1 }

--  
-- SIP Retry Statistics  
--  
-- This group contains various statistics objects about  
-- retransmission counts.  
--

sipCommonStatsRetryTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonStatsRetryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains retry statistics objects applicable to each SIP entity in this system."

::= { sipCommonStatsRetry 1 }

sipCommonStatsRetryEntry OBJECT-TYPE

SYNTAX SipCommonStatsRetryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row of retry statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex, sipCommonStatsRetryMethod }

::= { sipCommonStatsRetryTable 1 }

SipCommonStatsRetryEntry ::= SEQUENCE {

sipCommonStatsRetryMethod SipTCMethodName,

sipCommonStatsRetries

Counter32,

sipCommonStatsRetryFinalResponses Counter32,

sipCommonStatsRetryNonFinalResponses Counter32,

sipCommonStatsRetryDisconTime TimeStamp

}

sipCommonStatsRetryMethod OBJECT-TYPE



SYNTAX SipTCMethodName  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This object uniquely identifies the SIP method related to the objects in a row."  
::= { sipCommonStatsRetryEntry 1 }

sipCommonStatsRetries OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object reflects the total number of request retransmissions that have been sent by the SIP entity. Note that there could be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring

the sipCommonStatsRetryDisconTime object in the same row."

::= { sipCommonStatsRetryEntry 2 }

sipCommonStatsRetryFinalResponses OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object reflects the total number of Final Response retries that have been sent by the SIP entity. Note that there could be multiple retransmissions per request.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by

monitoring the sipCommonStatsRetryDisconTime object in the same row."

::= { sipCommonStatsRetryEntry 3 }

sipCommonStatsRetryNonFinalResponses OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"This object reflects the total number of non-Final Response retries that have been sent by the SIP entity.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonStatsRetryDisconTime object in the same row."

::= { sipCommonStatsRetryEntry 4 }

sipCommonStatsRetryDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the retry statistics objects in this row last experienced a discontinuity."

::= { sipCommonStatsRetryEntry 5 }

--

-- Other Common Statistics

--

sipCommonOtherStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SipCommonOtherStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains other common statistics supported by each SIP entity in this system."

::= {

sipCommonOtherStats 1 }

sipCommonOtherStatsEntry OBJECT-TYPE

SYNTAX SipCommonOtherStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Information on a particular SIP entity's other common statistics.

Each row represents those objects for a particular SIP entity present in this system. applIndex is used to uniquely identify these instances of SIP entities and correlate them through

the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."

INDEX { applIndex }

::= { sipCommonOtherStatsTable 1 }

SipCommonOtherStatsEntry ::= SEQUENCE {

    sipCommonOtherStatsNumUnsupportedUris Counter32,

    sipCommonOtherStatsNumUnsupportedMethods Counter32,

    sipCommonOtherStatsOtherwiseDiscardedMsgs Counter32,

    sipCommonOtherStatsDisconTime TimeStamp

}

sipCommonOtherStatsNumUnsupportedUris OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"Number of RequestURIs received with an unsupported scheme.

A server normally responds to such requests with a 400 Bad Request status code.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 1 }

sipCommonOtherStatsNumUnsupportedMethods OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of SIP requests received with unsupported methods. A server normally responds to such requests with a 501 (Not Implemented) or 405 (Method Not Allowed).

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 2 }

sipCommonOtherStatsOtherwiseDiscardedMsgs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of SIP messages received that, for any number of reasons, was discarded without a response.

Discontinuities in the value of this counter can occur at re-initialization of the SIP entity or service. A Management Station can detect discontinuities in this counter by monitoring the sipCommonOtherStatsDisconTime object in the same row."

::= { sipCommonOtherStatsEntry 3 }

sipCommonOtherStatsDisconTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of the sysUpTime object when the counters for the statistics objects in this row last experienced a discontinuity."

::= { sipCommonOtherStatsEntry 4 }

--

-- Notification related objects

--

--

-- Status code related notification objects.

--

sipCommonStatusCodeNotifTo OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains the value of the To header in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'To: Watson '."

::= { sipCommonNotifObjects 1 }

sipCommonStatusCodeNotifFrom OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS accessible-for-notify

STATUS current

## DESCRIPTION

"This object contains the value of the From header in the message containing the status code that caused the

notification. The header name will be part of this object value. For example, 'From: Watson '."

```
::= { sipCommonNotifObjects  
2 }
```

## sipCommonStatusCodeNotifCallId OBJECT-TYPE

SYNTAX SnmpAdminString  
MAX-ACCESS accessible-for-notify  
STATUS current

### DESCRIPTION

"This object contains the value of the Call-ID in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'Call-ID: 5551212@example.com'."

```
::= { sipCommonNotifObjects 3 }
```

## sipCommonStatusCodeNotifCSeq OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS accessible-for-notify  
STATUS current

### DESCRIPTION

"This object contains the CSeq value in the message containing the status code that caused the notification. The header name will be part of this object value. For example, 'CSeq: 1722 INVITE'."

```
::= { sipCommonNotifObjects 4 }
```

```
--  
-- General notification related objects.  
--
```

## sipCommonNotifAppIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS accessible-for-notify

STATUS current

### DESCRIPTION

"This object contains the appIndex as described in RFC 2788. This object is created in order to allow a variable binding containing a value of appIndex in a notification."

```
::= { sipCommonNotifObjects 5 }
```

## sipCommonNotifSequenceNumber OBJECT-TYPE

SYNTAX Unsigned32 (1..2147483647)

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"This object contains a sequence number for each notification generated by this SIP entity. Each notification SHOULD have a unique sequence number. A network manager can use this information to determine whether notifications from a

particular SIP entity have been missed. The value of this object MUST start at 1 and increase by 1 with each generated notification. If a system restarts, the sequence number MAY start again from 1."

::= { sipCommonNotifObjects  
6 }

--

-- Notifications

--

sipCommonStatusCodeNotif NOTIFICATION-TYPE

OBJECTS {

sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonStatusCodeNotifTo,  
sipCommonStatusCodeNotifFrom,  
sipCommonStatusCodeNotifCallId,  
sipCommonStatusCodeNotifCSeq,  
sipCommonStatusCodeIns,  
sipCommonStatusCodeOuts

}

STATUS current

DESCRIPTION

"Signifies that a specific status code has been sent or received by the system."

::= { sipCommonMIBNotifications 1 }

sipCommonStatusCodeThreshExceededInNotif NOTIFICATION-TYPE

OBJECTS {

sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonStatusCodeIns

}

STATUS current

DESCRIPTION

"Signifies that a specific status code was found to have been received by the system frequently enough to exceed the

configured threshold. This notification can be used as  
an early warning mechanism  
in lieu of using  
sipCommonStatusCodeNotif."  
::= { sipCommonMIBNotifications 2 }

sipCommonStatusCodeThreshExceededOutNotif NOTIFICATION-TYPE

OBJECTS {  
sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonStatusCodeOuts  
}  
STATUS current

DESCRIPTION

"Signifies that a specific status code was found to have been  
sent by the system enough to exceed the configured threshold.  
This notification can be used as an early warning mechanism in  
lieu of using sipCommonStatusCodeNotif."

::= { sipCommonMIBNotifications 3 }

sipCommonServiceColdStart NOTIFICATION-TYPE

OBJECTS {  
sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonCfgServiceStartTime  
}  
STATUS current

DESCRIPTION

"Signifies that the SIP service has reinitialized itself or  
started for the first time. This SHOULD result from a hard  
'down' to 'up' administrative status  
change. The configuration  
or behavior of the service MAY be altered."

::= { sipCommonMIBNotifications 4 }

sipCommonServiceWarmStart NOTIFICATION-TYPE

OBJECTS {  
sipCommonNotifSequenceNumber,  
sipCommonNotifApplIndex,  
sipCommonCfgServiceLastChange  
}  
STATUS current

DESCRIPTION

"Signifies that the SIP service has reinitialized itself and is  
restarting after an administrative 'reset'. The configuration

```

    or behavior of the service MAY be altered."
 ::= { sipCommonMIBNotifications 5 }

sipCommonServiceStatusChanged NOTIFICATION-TYPE
OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceLastChange,
    sipCommonCfgServiceOperStatus
}
STATUS    current
DESCRIPTION
    "Signifies that the SIP service operational status has changed."
 ::= { sipCommonMIBNotifications 6 }

--
-- Conformance

--
sipCommonMIBCompliances
    OBJECT IDENTIFIER
 ::= { sipCommonMIBConformance 1 }
sipCommonMIBGroups
    OBJECT IDENTIFIER ::= { sipCommonMIBConformance 2 }

--
-- Compliance Statements
--
sipCommonCompliance MODULE-COMPLIANCE
STATUS    current
DESCRIPTION
    "The compliance statement for SIP entities."

MODULE -- this module
    MANDATORY-GROUPS { sipCommonConfigGroup,
                        sipCommonStatsGroup
    }

OBJECT    sipCommonStatusCodeRowStatus
SYNTAX    RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
    "Support for createAndWait and notInService is not required."

OBJECT    sipCommonCfgServiceNotifEnable
MIN-ACCESS not-accessible

```



DESCRIPTION

"This object is optional and does not need to be supported."

GROUP sipCommonInformationalGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any support for these objects, as they provide optional information."

GROUP sipCommonConfigTimerGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any timer configuration."

GROUP sipCommonStatsRetryGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any retry statistics."

GROUP sipCommonNotifGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonStatusCodeNotifGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonNotifGroup and sipCommonNotifObjectsGroup MUST also be implemented."

GROUP sipCommonNotifObjectsGroup

DESCRIPTION

"This group is OPTIONAL. A SIP entity can elect to not provide any notifications. If implemented, the sipCommonStatusCodeNotifGroup and sipCommonNotifGroup MUST also be implemented."

::= { sipCommonMIBCompliances 1 }

--

-- Units of Conformance

--

sipCommonConfigGroup OBJECT-GROUP

OBJECTS {

    sipCommonCfgProtocolVersion,  
    sipCommonCfgServiceOperStatus,  
    sipCommonCfgServiceStartTime,  
    sipCommonCfgServiceLastChange,  
    sipCommonPortTransportRcv,  
    sipCommonOptionTag,  
    sipCommonOptionTagHeaderField,  
    sipCommonCfgMaxTransactions,  
    sipCommonCfgServiceNotifEnable,  
    sipCommonCfgEntityType,  
    sipCommonMethodSupportedName

}

STATUS current

DESCRIPTION

"A collection of objects providing configuration common to all  
SIP entities."

::= { sipCommonMIBGroups 1 }

sipCommonInformationalGroup OBJECT-GROUP

OBJECTS {

    sipCommonCfgOrganization

}

STATUS current

DESCRIPTION

"A collection of objects providing configuration common to all  
SIP entities."

::= { sipCommonMIBGroups 2 }

sipCommonConfigTimerGroup OBJECT-GROUP

OBJECTS {

    sipCommonCfgTimerA,  
    sipCommonCfgTimerB,  
    sipCommonCfgTimerC,  
    sipCommonCfgTimerD,  
    sipCommonCfgTimerE,  
    sipCommonCfgTimerF,  
    sipCommonCfgTimerG,  
    sipCommonCfgTimerH,  
    sipCommonCfgTimerI,  
    sipCommonCfgTimerJ,  
    sipCommonCfgTimerK,  
    sipCommonCfgTimerT1,

```
    sipCommonCfgTimerT2,  
    sipCommonCfgTimerT4  
}  
STATUS current  
DESCRIPTION  
    "A collection of objects providing timer configuration common to  
    all SIP entities."  
::= { sipCommonMIBGroups 3 }
```

sipCommonStatsGroup OBJECT-GROUP

```
OBJECTS {  
    sipCommonSummaryInRequests,  
    sipCommonSummaryOutRequests,  
  
    sipCommonSummaryInResponses,  
    sipCommonSummaryOutResponses,  
    sipCommonSummaryTotalTransactions,  
    sipCommonSummaryDisconTime,  
    sipCommonMethodStatsOutbounds,  
    sipCommonMethodStatsInbounds,  
    sipCommonMethodStatsDisconTime,  
    sipCommonStatusCodeIns,  
    sipCommonStatusCodeOuts,  
    sipCommonStatusCodeRowStatus,  
    sipCommonStatusCodeDisconTime,  
    sipCommonTransCurrentactions,  
    sipCommonOtherStatsNumUnsupportedUris,  
    sipCommonOtherStatsNumUnsupportedMethods,  
    sipCommonOtherStatsOtherwiseDiscardedMsgs,  
    sipCommonOtherStatsDisconTime  
  
}
```

```
STATUS current  
DESCRIPTION  
    "A collection of objects providing statistics common to all SIP  
    entities."  
::= { sipCommonMIBGroups 4 }
```

sipCommonStatsRetryGroup OBJECT-GROUP

```
OBJECTS {  
    sipCommonStatsRetries,  
    sipCommonStatsRetryFinalResponses,  
    sipCommonStatsRetryNonFinalResponses,  
    sipCommonStatsRetryDisconTime  
}  
STATUS current
```

DESCRIPTION

"A collection of objects providing retry statistics."

::= { sipCommonMIBGroups 5 }

sipCommonNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {

    sipCommonStatusCodeNotif,  
    sipCommonStatusCodeThreshExceededInNotif,  
    sipCommonStatusCodeThreshExceededOutNotif,  
    sipCommonServiceColdStart,  
    sipCommonServiceWarmStart,  
    sipCommonServiceStatusChanged

}

STATUS current

DESCRIPTION

"A collection of notifications common to all SIP entities."

::= { sipCommonMIBGroups 6 }

sipCommonStatusCodeNotifGroup OBJECT-GROUP

OBJECTS {

    sipCommonStatusCodeNotifSend,  
    sipCommonStatusCodeNotifEmitMode,  
    sipCommonStatusCodeNotifThresh,  
    sipCommonStatusCodeNotifInterval

}

STATUS current

DESCRIPTION

"A collection of  
objects related to the control and attribution  
of notifications common to all SIP entities."

::= { sipCommonMIBGroups 7 }

sipCommonNotifObjectsGroup OBJECT-GROUP

OBJECTS {

    sipCommonStatusCodeNotifTo,  
    sipCommonStatusCodeNotifFrom,  
    sipCommonStatusCodeNotifCallId,  
    sipCommonStatusCodeNotifCSeq,  
    sipCommonNotifAppIndex,  
    sipCommonNotifSequenceNumber

}

STATUS current

DESCRIPTION

"A collection of accessible-for-notify objects related to the

```
notification defined in this MIB module."  
 ::= { sipCommonMIBGroups 8 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-  
COMMON-MIB
```

No license file was found, but licenses were detected in source scan.

```
DOCS-IF-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
MODULE-IDENTITY,  
OBJECT-TYPE,  
Unsigned32,  
Integer32,  
Counter32,  
Counter64,  
TimeTicks,  
IpAddress,  
transmission  
    FROM SNMPv2-SMI    -- [RFC2578]
```

```
TEXTUAL-CONVENTION,  
MacAddress,  
RowStatus,  
TruthValue,  
TimeInterval,  
TimeStamp,  
StorageType  
    FROM SNMPv2-TC    -- [RFC2579]  
OBJECT-GROUP,
```

```
MODULE-COMPLIANCE
```

```
    FROM SNMPv2-CONF    -- [RFC2580]  
ifIndex, InterfaceIndexOrZero  
    FROM IF-MIB        -- [RFC2863]  
InetAddressType,  
InetAddress  
    FROM INET-ADDRESS-MIB -- [RFC4001]  
IANAifType  
    FROM IANAifType-MIB; -- [IANA]
```

```
docsIfMib MODULE-IDENTITY
```

```
LAST-UPDATED "200605240000Z" -- May 24, 2006  
ORGANIZATION "IETF IPCDN Working Group"  
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#### DESCRIPTION

"This is the MIB Module for DOCSIS 2.0-compliant Radio

Frequency (RF) interfaces in Cable Modems and  
Cable Modem Termination Systems.

Copyright (C) The Internet Society (2006). This  
version of this MIB module is part of RFC 4546; see  
the RFC itself for full legal notices."

REVISION "200605240000Z"

#### DESCRIPTION

"Revision of the IETF RF MIB module for DOCSIS 2.0.  
This version published as RFC 4546.  
This MIB module revision includes the following  
among others:  
Usage of ifType (205) for upstream logical channels.  
Addition of downstream and upstream utilization  
counters.  
Additional statistics per upstream interface.  
Upstream channel offline configuration mechanism.  
Added MIB support for new DOCSIS 2.0 modulation  
attributes.

Euro-DOCSIS downstream interleave values.  
Adjustments to RFC 2670 definitions based on  
the MIB review guidelines from the IETF

Operations and Management Area (OPS)."

REVISION "199908190000Z"

DESCRIPTION

"Initial version, published as RFC 2670.

Modified by Mike St. Johns to fix problems identified by  
the first pass of the MIB doctor. Of special note,  
docsIfRangingResp and docsIfCmtsInsertionInterval were  
obsoleted and replaced by other objects with the same  
functionality, but with more appropriate syntax."

::= { transmission 127 }

-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are normally  
expressed in dBmV. Units are in tenths of a dBmV;  
for example, 5.1 dBmV will be represented as 51."

SYNTAX Integer32

TenthdB ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d-1"

STATUS current

DESCRIPTION

"This data type represents power levels that are  
normally  
expressed in dB. Units are in tenths of a dB;  
for example, 5.1 dB will be represented as 51."

SYNTAX Integer32

DocsisVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Radio Frequency specification being  
referenced.

'docsis10' indicates DOCSIS 1.0.

'docsis11' indicates DOCSIS 1.1.

'docsis20' indicates DOCSIS 2.0."

```
SYNTAX    INTEGER {
    docsis10 (1),
    docsis11 (2),
    docsis20 (3)
}
```

DocsisQosVersion ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the referenced quality-of-service level.

'docsis10 refers to DOCSIS 1.0 Class of Service queuing services, and 'docsis11' refers to DOCSIS 1.1 Quality of Service."

```
SYNTAX    INTEGER {
    docsis10 (1),
    docsis11 (2)
}
```

DocsisUpstreamType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Indicates the DOCSIS Upstream Channel Type.

'unknown' means information not available.

'tdma' is related to TDMA, Time Division Multiple Access; 'atdma' is related to A-TDMA, Advanced Time Division Multiple Access,

'scdma' is related to S-CDMA, Synchronous Code Division Multiple Access.

'tdmaAndAtdma is related to simultaneous support of TDMA and A-TDMA modes."

```
SYNTAX    INTEGER {
    unknown(0),
    tdma(1),
    atdma(2),
    scdma(3),
    tdmaAndAtdma(4)
}
```

DocsEqualizerData ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type represents the equalizer data as measured at the receiver interface.

The format of the equalizer follows the structure of the



Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI

v2.0 :

1 byte Main tap location  $1..(n + m)$

1 byte Number of forward taps per symbol

1 byte Number of forward taps:  $n$

1 byte Number of reverse taps:  $m$

Following are the equalizer coefficients:

First, forward taps coefficients:

2 bytes  $F_1$  (real), 2 bytes  $F_1$  (imag)

...

2 bytes  $F_n$  (real), 2 bytes  $F_n$  (imag)

Then, reverse taps coefficients:

2 bytes  $D_1$  (real), 2 bytes  $D_1$  (imag)

...

2 bytes  $D_m$  (real), 2 bytes  $D_m$  (imag)

The equalizer coefficients are considered signed 16-bit integers in the range from -32768 (0x8000) to 32767 (0x7FFF).

DOCSIS specifications require up to a maximum of 64 equalizer taps ( $n + m$ ); therefore, this object size can get up 260 bytes ( $4 + 4 \times 64$ ).

The minimum object size (other than zero) for a  $t$ -spaced tap with a minimum of 8 symbols will be  $36(4 + 4 \times 8)$ ."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 8-23."

SYNTAX OCTET STRING(SIZE (0 | 36..260))

```
docsIfMibObjects OBJECT IDENTIFIER ::= { docsIfMib 1 }
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }
docsIfCmObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }
```

--

-- BASE GROUP

--

--  
-- The following table is implemented on both the Cable Modem  
-- and the Cable Modem Termination System. This table is  
-- read only for the CM.  
--

docsIfDownstreamChannelTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfDownstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table describes the attributes of downstream  
channels (frequency bands)."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface  
Specification SP-RFiv2.0-I10-051209,  
Tables 6-16, and 6-17."  
::= { docsIfBaseObjects 1 }

docsIfDownstreamChannelEntry OBJECT-TYPE

SYNTAX DocsIfDownstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry provides a list of attributes for a single  
downstream channel.

An entry in this table exists for each ifEntry with an  
ifType of docsCableDownstream(128)."

INDEX { ifIndex }

::= { docsIfDownstreamChannelTable 1 }

DocsIfDownstreamChannelEntry ::= SEQUENCE {

docsIfDownChannelId Integer32,  
docsIfDownChannelFrequency Integer32,  
docsIfDownChannelWidth Integer32,  
docsIfDownChannelModulation INTEGER,  
docsIfDownChannelInterleave INTEGER,  
docsIfDownChannelPower TenthdBmV,  
docsIfDownChannelAnnex INTEGER,  
docsIfDownChannelStorageType  
StorageType  
}

docsIfDownChannelId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Cable Modem Termination System identification of the downstream channel within this particular MAC interface. If the interface is down, the object returns the most current value. If the downstream channel ID is unknown, this object returns a value of 0."

::= { docsIfDownstreamChannelEntry 1 }

docsIfDownChannelFrequency OBJECT-TYPE

SYNTAX Integer32 (0..1000000000)

UNITS "hertz"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The center of the downstream frequency associated with this channel. This object will return the current tuner

frequency. If a CMTS provides IF output, this object will return 0, unless this CMTS is in control of the final downstream frequency. See

the associated

compliance object for a description of valid frequencies that may be written to this object."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.3.3."

::= { docsIfDownstreamChannelEntry 2 }

docsIfDownChannelWidth OBJECT-TYPE

SYNTAX Integer32 (0..16000000)

UNITS "hertz"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The bandwidth of this downstream channel. Most implementations are expected to support a channel width of 6 MHz (North America) and/or 8 MHz (Europe). See the associated compliance object for a description of the valid channel widths for this object."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 6-17."

::= { docsIfDownstreamChannelEntry 3 }

docsIfDownChannelModulation OBJECT-TYPE

SYNTAX INTEGER {  
    unknown(1),  
    other(2),  
    qam64(3),  
    qam256(4)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The modulation type associated with this downstream channel. If the interface is down, this object either returns the configured value (CMTS), the most current value (CM), or the value of unknown(1). See the associated conformance object for write conditions and limitations. See the reference for specifics on the modulation profiles implied by qam64 and qam256."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 6-17."

::= { docsIfDownstreamChannelEntry 4 }

docsIfDownChannelInterleave OBJECT-TYPE

SYNTAX INTEGER {  
    unknown(1),  
    other(2),  
    taps8Increment16(3),  
    taps16Increment8(4),  
    taps32Increment4(5),  
    taps64Increment2(6),  
    taps128Increment1(7),  
    taps12increment17(8)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Forward Error Correction (FEC) interleaving used for this downstream channel.

Values are defined as follows:

taps8Increment16(3): protection 5.9/4.1 usec,  
latency .22/.15 msec  
taps16Increment8(4): protection 12/8.2 usec,  
latency .48/.33 msec  
taps32Increment4(5): protection 24/16 usec,  
latency .98/.68 msec  
taps64Increment2(6): protection 47/33 usec,  
latency 2/1.4 msec  
taps128Increment1(7): protection 95/66 usec,  
latency 4/2.8 msec  
taps12increment17(8):  
protection 18/14 usec,  
latency 0.43/0.32 msec

The value 'taps12increment17' is supported by EuroDOCSIS cable systems only, and the others by DOCSIS cable systems.

If the interface is down, this object either returns the configured value (CMTS), the most current value (CM), or the value of unknown(1).

The value of other(2) is returned if the interleave is known but not defined in the above list.

See the associated conformance object for write conditions and limitations. See the reference for the FEC configuration described by the setting of this object."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209,

Table 6-15."

```
::= { docsIfDownstreamChannelEntry 5 }
```

#### docsIfDownChannelPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS

"dBmV"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"At the CMTS, the operational transmit power. At the CM, the received power level.

If the interface is down, this object either returns the configured value (CMTS), the most current value (CM) or the value of 0. See the associated conformance object for write conditions and limitations. See the reference for recommended and required power levels."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-16, 6-17."

::= { docsIfDownstreamChannelEntry 6 }

## docsIfDownChannelAnnex OBJECT-TYPE

SYNTAX INTEGER {

unknown(1),

other(2),

annexA(3),

annexB(4),

annexC(5)

}

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"The value of this object indicates the conformance of the implementation to important regional cable standards. annexA : Annex A from ITU-T J.83 is used. (equivalent to EN 300 429) annexB : Annex B from ITU-T J.83 is used. annexC : Annex C from ITU-T J.83 is used."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.3.1, and H.3.1."

::= { docsIfDownstreamChannelEntry 7 }

## docsIfDownChannelStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"The storage type for this conceptual row. Entries with this object set to permanent(4) do not require write operations for read-write objects."

::= { docsIfDownstreamChannelEntry 8 }

--

-- The following table is implemented on both the CM and the CMTS.

-- For the CM, only attached channels

appear in the table. For the  
-- CM, this table is read-only as well.  
--

#### docsIfUpstreamChannelTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfUpstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This table describes the attributes of attached upstream channels."

::= { docsIfBaseObjects 2 }

#### docsIfUpstreamChannelEntry OBJECT-TYPE

SYNTAX DocsIfUpstreamChannelEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"List of attributes for a single upstream channel. For DOCSIS 2.0 CMTSs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstreamChannel (205).

For DOCSIS 1.x CM/CMTSs and DOCSIS 2.0 CMs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstream (129).

For DOCSIS 2.0 CMTSs, two classes of interfaces can be defined for this table:

- o Upstream Physical Interfaces: The traditional DOCSIS 1.x CMTS upstream interface ifType 129 and the DOCSIS 2.0 ifType 205 that are functional. In other words, interfaces that represent upstream receivers within an RF MAC interface.

Entries of physical interfaces are exposed to the management interface with their corresponding ifStack hierarchy and are not administratively created by this table.

- o Upstream Temporary Interfaces: A fictitious interface created for the purpose of manipulating physical interface parameters offline, then validating prior to updating the target physical interface.

In case of a reinitialization of the managed system,

physical interfaces values persist while the temporary interfaces are not recreated.

This mechanism helps to minimize service disruptions originating in situations where a group of interface parameter values need to be consistent with each other in SET operations. A temporary buffer (temporary interface) is provided to allow the CMTS to validate the parameters offline."

INDEX { ifIndex }

::= { docsIfUpstreamChannelTable 1 }

```
DocsIfUpstreamChannelEntry ::= SEQUENCE {
    docsIfUpChannelId          Integer32,
    docsIfUpChannelFrequency   Integer32,
    docsIfUpChannelWidth      Integer32,
    docsIfUpChannelModulationProfile Unsigned32,
    docsIfUpChannelSlotSize    Unsigned32,
    docsIfUpChannelTxTimingOffset Unsigned32,
    docsIfUpChannelRangingBackoffStart Integer32,
    docsIfUpChannelRangingBackoffEnd Integer32,
    docsIfUpChannelTxBackoffStart Integer32,
    docsIfUpChannelTxBackoffEnd Integer32,

    docsIfUpChannelScdmaActiveCodes Unsigned32,
    docsIfUpChannelScdmaCodesPerSlot Integer32,
    docsIfUpChannelScdmaFrameSize Unsigned32,
    docsIfUpChannelScdmaHoppingSeed Unsigned32,
    docsIfUpChannelType        DocsisUpstreamType,
    docsIfUpChannelCloneFrom   InterfaceIndexOrZero,
    docsIfUpChannelUpdate      TruthValue,
    docsIfUpChannelStatus      RowStatus,
    docsIfUpChannelPreEqEnable TruthValue
}
```

docsIfUpChannelId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CMTS identification of the upstream channel."

::= { docsIfUpstreamChannelEntry 1 }

docsIfUpChannelFrequency OBJECT-TYPE

SYNTAX Integer32 (0..1000000000)



UNITS "hertz"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The center of the frequency band associated with this upstream interface. This object returns 0 if the frequency is undefined or unknown. Minimum permitted upstream frequency is 5,000,000 Hz for current technology. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 4-2."

::= { docsIfUpstreamChannelEntry 2 }

docsIfUpChannelWidth OBJECT-TYPE

SYNTAX Integer32 (0..64000000)  
UNITS "hertz"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The bandwidth of this upstream interface. This object returns 0 if the interface width is undefined or unknown. Minimum permitted interface width is currently 200,000 Hz. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 6-5."

::= { docsIfUpstreamChannelEntry 3 }

docsIfUpChannelModulationProfile OBJECT-TYPE

SYNTAX Unsigned32  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"An entry identical to the docsIfModIndex in the docsIfCmtsModulationTable that describes this channel. This channel is further instantiated there by a grouping of interval usage codes (IUCs) that, together, fully describe the channel modulation. This object returns 0 if the docsIfCmtsModulationTable entry does not exist or is empty. See the associated conformance object for write conditions and limitations."

Setting this object returns an 'inconsistentValue' error if the following conditions are not satisfied:

1. All the IUC entries in the selected modulation profile MUST have the same value of docsIfCmtsModChannelType.
2. All of the Modulation parameters in the selected modulation profile MUST be consistent with the other parameters in this docsIfUpstreamChannelEntry."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

::= { docsIfUpstreamChannelEntry 4 }

#### docsIfUpChannelSlotSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "ticks"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Applicable to TDMA and ATDMA channel types only. The number of 6.25 microsecond ticks in each upstream mini-slot. Returns zero if the value is undefined or unknown or in case of an SCDMA channel. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.1.2.4."

::= { docsIfUpstreamChannelEntry 5 }

#### docsIfUpChannelTxTimingOffset OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"At the CM, a measure of the current round trip time obtained from the ranging offset (initial ranging offset + ranging offset adjustments). At the CMTS, the maximum of timing offset, among all the CMs that are/were present on the channel, taking into account all ( initial + periodic ) timing offset corrections that were sent for each of the CMs. Generally, these measurements are positive, but if the measurements are negative, the value of this object is zero. Used for

timing of CM upstream transmissions to ensure synchronized

arrivals at the CMTS.

Units are one 64th fraction of 6.25 microseconds."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.19."

::= { docsIfUpstreamChannelEntry 6 }

docsIfUpChannelRangingBackoffStart OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The initial random backoff window to use when retrying Ranging Requests. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry  
7 }

docsIfUpChannelRangingBackoffEnd OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The final random backoff window to use when retrying Ranging Requests. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 8 }

docsIfUpChannelTxBackoffStart OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The initial random backoff window to use when retrying transmissions. Expressed as a power of 2. A value of 16

at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 9 }

docsIfUpChannelTxBackoffEnd OBJECT-TYPE

SYNTAX Integer32 (0..16)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The final random backoff window to use when retrying transmissions. Expressed as a power of 2. A value of 16 at the CMTS indicates that a proprietary adaptive retry mechanism is to be used. See the associated conformance object for write conditions and limitations."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4, and 9.4."

::= { docsIfUpstreamChannelEntry 10 }

docsIfUpChannelScdmaActiveCodes OBJECT-TYPE

SYNTAX Unsigned32 (0|64..66|68..70|72|74..78|80..82|84..88  
|90..96|98..100|102|104..106|108  
|110..112|114..126|128)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only. Number of active codes. Returns zero for Non-SCDMA channel types. Note that legal values from 64..128 MUST be non-prime."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.11.2.1."  
::= { docsIfUpstreamChannelEntry 11 }

docsIfUpChannelScdmaCodesPerSlot OBJECT-TYPE

SYNTAX Integer32(0 | 2..32)

UNITS "codesperMinislots"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.

The number of SCDMA codes per mini-slot.

Returns zero if the value is undefined or unknown or in

case of a TDMA or ATDMA channel."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,

Section 6.2.11.2.1."

::= { docsIfUpstreamChannelEntry 12 }

docsIfUpChannelScdmaFrameSize OBJECT-TYPE

SYNTAX Unsigned32 (0..32)

UNITS "spreadIntervals"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.

SCDMA Frame size in units of spreading intervals.

This value returns zero for non-SCDMA Profiles."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,

Section 6.2.12."

::= {

docsIfUpstreamChannelEntry 13 }

docsIfUpChannelScdmaHoppingSeed OBJECT-TYPE

SYNTAX Unsigned32 (0..32767)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Applicable for SCDMA channel types only.

15-bit seed used for code hopping sequence initialization.

Returns zero for non-SCDMA channel types.

Setting this value to a value different than zero for

non-SCDMA channel types returns the error 'wrongValue'."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.14.1."

::= { docsIfUpstreamChannelEntry 14 }

#### docsIfUpChannelType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Reflects the Upstream channel type.

This object returns the value of docsIfCmtsModChannelType  
for the modulation profile selected

in

docsIfUpChannelModulationProfile for this row."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 6.2.1."

::= { docsIfUpstreamChannelEntry 15 }

#### docsIfUpChannelCloneFrom OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object contains the ifIndex value of the physical  
interface row entry whose parameters are to be adjusted.

Upon setting this object to the ifIndex value of a  
physical interface, the following interface objects values  
are copied to this entry:

docsIfUpChannelFrequency,

docsIfUpChannelWidth,

docsIfUpChannelModulationProfile,

docsIfUpChannelSlotSize,

docsIfUpChannelRangingBackoffStart,

docsIfUpChannelRangingBackoffEnd,

docsIfUpChannelTxBackoffStart,

docsIfUpChannelTxBackoffEnd,

docsIfUpChannelScdmaActiveCodes,

docsIfUpChannelScdmaCodesPerSlot,

docsIfUpChannelScdmaFrameSize,

docsIfUpChannelScdmaHoppingSeed,  
docsIfUpChannelType, and  
docsIfUpChannelPreEqEnable  
Setting this object to the value of a non-existent or  
a temporary upstream interface returns the error  
'wrongValue'.  
This object MUST contain a value of zero for physical  
interfaces entries.  
Setting this object in row entries that correspond to  
physical interfaces returns the error 'wrongValue'.  
::= { docsIfUpstreamChannelEntry 16 }

docsIfUpChannelUpdate OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Used to perform the copy of adjusted parameters from the  
temporary interface entry to the physical interface  
indicated by the docsIfUpChannelCloneFrom

object. The

transfer is initiated through an SNMP SET to 'true' of

this object.

A SET to 'true' fails and returns error 'commitFailed'  
if docsIfUpChannelStatus value is 'notInService', which  
means that the interface parameters values are not  
compatible with each other or have not been validated yet.

Reading this object always returns 'false'."

::= { docsIfUpstreamChannelEntry 17 }

docsIfUpChannelStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is only used for the creation of a temporary  
upstream row with the purpose of updating the parameters  
of a physical upstream channel entry.

The following restrictions apply to this object:

1. This object is not writable for physical interfaces.
2. Temporary interface entries are only created by a SET

of this object to createAndWait(5).

3. ifAdminStatus from the Interface MIB RFC 2863 is used

to take a physical upstream channel offline, to be consistent with DOCSIS 1.x operation, as indicated in RFC 2670.

In addition,

- o ifAdminStatus 'down' is reflected in this object as 'notInService'.
  - o ifOperStatus 'down' while ifAdminStatus 'up' is reflected in this object as 'notInService'.
4. Temporary created rows MUST be set to 'active' with the purpose of validating upstream parameter consistency prior to transferring the parameters to the physical interface.

Below is a mandatory procedure for adjusting the values of a physical interface:

1. Create a temporary interface entry through an SNMP SET using 'createAndWait'. At this point, the RowStatus reports 'notReady'.  
The Manager entity uses an ifIndex value outside the operational range of the physical interfaces for the creation of a temporary interface.
2. Set the docsIfUpChannelCloneFrom object to the ifIndex value of the physical row to update. Now docsIfUpChannelStatus reports 'notInService'.
3. Change the upstream parameters to the desired values in the temporary row.

4. Validate that all parameters are consistent by setting docsIfUpChannelStatus to 'active'. A failure to set the RowStatus to 'active' returns the error 'commitFailed', which means the parameters are not compatible with the target physical interface.
5. With docsIfUpChannelStatus 'active', transfer the parameters to the target physical interface by setting the object docsIfUpChannelUpdate to 'true'.
6. Delete the temporary

row by setting

```
docsIfUpChannelStatus to 'destroy'."  
::= { docsIfUpstreamChannelEntry 18 }
```

docsIfUpChannelPreEqEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"At the CMTS, this object is used to enable or disable



pre-equalization on the upstream channel represented by this table instance. At the CM, this object is read-only and reflects the status of pre-equalization as represented in the RNG-RSP. Pre-equalization is considered enabled at the CM if a RNG-RSP with pre-equalization data has been received at least once since the last mac reinitialization."

DEFVAL {false}

::= { docsIfUpstreamChannelEntry 19 }

-- The following table describes the attributes of each class of  
-- service. The entries in this table are referenced from the  
-- docsIfServiceEntries. They exist as a separate table in order to

--

reduce redundant information in docsIfServiceTable.

--

-- This table is implemented at both the CM and the CMTS.

-- The CM need only maintain entries for the classes of service

-- referenced by its docsIfCmServiceTable.

--

docsIfQosProfileTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfQosProfileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes for each class of service."

::= { docsIfBaseObjects 3 }

docsIfQosProfileEntry OBJECT-TYPE

SYNTAX DocsIfQosProfileEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes for a single class of service.

If implemented as read-create in the Cable Modem

Termination System, creation of entries in this table is

controlled by the value of

docsIfCmtsQosProfilePermissions.

If implemented as read-only, entries are created based

on information in REG-REQ

MAC messages received from

cable modems (for Cable Modem Termination System), or

based on information extracted from the TFTP option file

(for Cable Modem).

In the Cable Modem Termination System, read-only entries are removed if no longer referenced by docsIfCmtsServiceTable.

An entry in this table MUST not be removed while it is referenced by an entry in docsIfCmServiceTable (Cable Modem) or docsIfCmtsServiceTable (Cable Modem Termination System).

An entry in this table SHOULD NOT be changeable while it is referenced by an entry in docsIfCmtsServiceTable.

If this table is created automatically, there SHOULD only be a single entry for each Class of Service. Multiple entries with the same Class of Service parameters are NOT RECOMMENDED."

```
INDEX { docsIfQosProfIndex }  
::= { docsIfQosProfileTable 1 }
```

DocsIfQosProfileEntry

```
::= SEQUENCE {  
    docsIfQosProfIndex      Integer32,  
    docsIfQosProfPriority   Integer32,  
    docsIfQosProfMaxUpBandwidth Integer32,  
    docsIfQosProfGuarUpBandwidth Integer32,  
    docsIfQosProfMaxDownBandwidth Integer32,  
    docsIfQosProfMaxTxBurst Integer32, -- deprecated  
    docsIfQosProfBaselinePrivacy TruthValue,  
    docsIfQosProfStatus     RowStatus,  
    docsIfQosProfMaxTransmitBurst Integer32,  
    docsIfQosProfStorageType StorageType  
}
```

docsIfQosProfIndex OBJECT-TYPE

```
SYNTAX Integer32 (1..16383)
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index value that uniquely identifies an entry in the docsIfQosProfileTable."

```
::= { docsIfQosProfileEntry 1 }
```

docsIfQosProfPriority OBJECT-TYPE

```
SYNTAX Integer32 (0..7)
```

MAX-ACCESS read-create  
STATUS current

#### DESCRIPTION

"A relative priority assigned to this service when allocating bandwidth. Zero indicates lowest priority and seven indicates highest priority.

Interpretation of priority is device-specific.

MUST NOT be changed while this row is active."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 2 }

#### docsIfQosProfMaxUpBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The maximum upstream bandwidth, in bits per second, allowed for a service with this service class.

Zero if there is no restriction of upstream bandwidth.

MUST NOT be changed while this row is active."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 3 }

#### docsIfQosProfGuarUpBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Minimum guaranteed upstream bandwidth, in bits per second,

allowed for a service with this service class.

MUST NOT be changed while this row is active."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."  
DEFVAL { 0 }  
::= { docsIfQosProfileEntry 4 }

docsIfQosProfMaxDownBandwidth OBJECT-TYPE

SYNTAX Integer32 (0..100000000)

UNITS "bits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum downstream bandwidth,  
in bits per second,  
allowed for a service with this service class.  
Zero if there is no restriction of downstream bandwidth.  
MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 5 }

docsIfQosProfMaxTxBurst OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "mini-slots"

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The maximum number of mini-slots that may be requested  
for a single upstream transmission.  
A value of zero means there is no limit.  
MUST NOT be changed while this row is active.  
This object has been deprecated and replaced by  
docsIfQosProfMaxTransmitBurst, to fix a mismatch  
of the units and value range with respect to

the DOCSIS

Maximum Upstream Channel Transmit Burst Configuration  
Setting."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 6 }

docsIfQosProfBaselinePrivacy OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether Baseline Privacy is enabled for this service class.

MUST NOT be changed while this row is active."

DEFVAL { false }

::= { docsIfQosProfileEntry 7 }

docsIfQosProfStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is object is used to create or delete rows in this table. This object MUST NOT be changed from active while the row is referenced by any entry in either docsIfCmServiceTable

(on the CM) or

docsIfCmtsServiceTable (on the CMTS)."

::= { docsIfQosProfileEntry 8 }

docsIfQosProfMaxTransmitBurst OBJECT-TYPE

SYNTAX Integer32 (0..65535)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of bytes that may be requested for a single upstream transmission. A value of zero means there is no limit. Note: This value does not include any physical layer overhead.

MUST NOT be changed while this row is active."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex C.1.1.4."

DEFVAL { 0 }

::= { docsIfQosProfileEntry 9 }

docsIfQosProfStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The storage type for this conceptual  
row.  
Entries with this object set to permanent(4)

do not require write operations for writable  
objects."  
::= { docsIfQosProfileEntry 10 }

docsIfSignalQualityTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfSignalQualityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"At the CM, describes the PHY signal quality of downstream  
channels. At the CMTS, this object describes the PHY  
signal quality of upstream channels. At the CMTS, this  
table MAY exclude contention intervals."

::= { docsIfBaseObjects 4 }

docsIfSignalQualityEntry OBJECT-TYPE

SYNTAX DocsIfSignalQualityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"At the CM, this object describes the PHY characteristics of  
a downstream channel. At the CMTS, it describes the PHY  
signal quality of an upstream channel.

An entry in this table exists

for each ifEntry with an

ifType of docsCableDownstream(128) for Cable Modems.

For DOCSIS 1.1 Cable Modem Termination Systems, an entry  
exists for each ifEntry with an ifType of

docsCableUpstream (129).

For DOCSIS 2.0 Cable Modem Termination Systems, an entry  
exists for each ifEntry with an ifType of

docsCableUpstreamChannel (205)."

INDEX { ifIndex }

::= { docsIfSignalQualityTable 1 }

DocsIfSignalQualityEntry ::= SEQUENCE {

docsIfSigQIncludesContention TruthValue,

docsIfSigQUnerrored Counter32,

docsIfSigQCorrecteds Counter32,

docsIfSigQUncorrectables Counter32,

docsIfSigQSignalNoise TenthdB,

docsIfSigQMicroreflections Integer32,

```
docsIfSigQEqualizationData DocsEqualizerData,  
docsIfSigQExtUnerroreds Counter64,  
docsIfSigQExtCorrecteds Counter64,  
docsIfSigQExtUncorrectables  
Counter64  
}
```

docsIfSigQIncludesContention OBJECT-TYPE

```
SYNTAX TruthValue  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "true(1) if this CMTS includes contention intervals in  
    the counters in this table. Always false(2) for CMs."  
REFERENCE  
    "Data-Over-Cable Service Interface Specifications: Radio  
    Frequency Interface Specification SP-RFIV2.0-I10-051209,  
    Section 9.4.1"  
 ::= { docsIfSignalQualityEntry 1 }
```

docsIfSigQUnerroreds OBJECT-TYPE

```
SYNTAX Counter32  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "Codewords received on this channel without error.  
    This includes all codewords, whether or not they  
    were part of frames destined for this device.  
    Discontinuities in the value of this counter can occur  
    at reinitialization of the managed system, and at other  
    times as indicated  
by the value of  
    ifCounterDiscontinuityTime for the associated ifIndex."  
REFERENCE  
    "Data-Over-Cable Service Interface Specifications: Radio  
    Frequency Interface Specification SP-RFIV2.0-I10-051209,  
    Sections 6.2.4, and 6.3.6."  
 ::= { docsIfSignalQualityEntry 2 }
```

docsIfSigQCorrecteds OBJECT-TYPE

```
SYNTAX Counter32  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current
```

#### DESCRIPTION

"Codewords received on this channel with correctable errors. This includes all codewords, whether or not they were part of frames destined for this device. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 3 }

#### docsIfSigQUncorrectables OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received on this channel with uncorrectable errors. This includes all codewords, whether or not they were part of frames destined for this device. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, and 6.3.6."

::= { docsIfSignalQualityEntry 4 }

#### docsIfSigQSignalNoise OBJECT-TYPE

SYNTAX TenthdB

UNITS "TenthdB"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Signal/Noise ratio as perceived for this channel. At the CM, this object describes the Signal/Noise of the downstream channel. At the CMTS, it describes the average Signal/Noise of the upstream channel."

#### REFERENCE



"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 4-1 and 4-2"  
::= { docsIfSignalQualityEntry 5 }

docsIfSigQMicroreflections OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "-dBc"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Microreflections, including in-channel response  
as perceived on this interface, measured in dBc below  
the signal level.

This object is not assumed to return an absolutely  
accurate value, but it gives a rough indication

of microreflections received on this interface.

It is up to the implementer to provide information  
as accurately as possible."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 4-1 and 4-2"

::= { docsIfSignalQualityEntry 6 }

docsIfSigQEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At the CM, this object returns the equalization data for  
the downstream channel.

At the CMTS, this object is not applicable and is not  
instantiated. Note that previous CMTS implementations  
may instantiate this object in two ways:

- An equalization value indicating an equalization  
average for the upstream channel. Those values have  
vendor-dependent

interpretations.

- Return a zero-length OCTET STRING to indicate that  
the value is unknown or if there is no equalization  
data available or defined."

REFERENCE

"DOCSIS Radio Frequency Interface Specification,

Figure 6-23."

```
::= { docsIfSignalQualityEntry 7 }
```

docsIfSigQExtUnerrored OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel without error.  
This includes all codewords, whether or not they  
were part of frames destined for this device.  
This is the 64-bit version of docsIfSigQUnerrored.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Sections 6.2.4, and 6.3.6."

```
::= { docsIfSignalQualityEntry 8 }
```

docsIfSigQExtCorrected OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received on this channel with correctable  
errors. This includes all codewords, whether or not  
they were part of frames destined for this device.  
This is the 64-bit version of docsIfSigQCorrected.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Sections 6.2.4, and 6.3.6."

```
::= { docsIfSignalQualityEntry 9 }
```

docsIfSigQExtUncorrectable OBJECT-TYPE

SYNTAX Counter64  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Codewords received on this channel with uncorrectable errors. This includes all codewords, whether or not they were part of frames destined for this device. This is the 64-bit version of docsIfSigQUncorrectables. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Sections 6.2.4, 6.3.6."

::= { docsIfSignalQualityEntry 10 }

--

-- DOCSIS Version of  
the device

--

docsIfDocsisBaseCapability OBJECT-TYPE

SYNTAX DocsisVersion  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Indication of the DOCSIS capability of the device."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex G."

::= { docsIfBaseObjects 5 }

--

-- CABLE MODEM GROUP

--

--

-- The CM MAC Table

--

docsIfCmMacTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmMacEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Describes the attributes of each CM MAC interface,  
extending the information available from ifEntry."  
::= { docsIfCmObjects 1 }

docsIfCmMacEntry OBJECT-TYPE  
SYNTAX DocsIfCmMacEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"An entry containing objects describing attributes  
of  
each MAC entry, extending the information in ifEntry.  
An entry in this table exists for each ifEntry with an  
ifType of docsCableMaclayer(127)."  
INDEX { ifIndex }  
::= { docsIfCmMacTable 1 }

DocsIfCmMacEntry ::= SEQUENCE {  
docsIfCmCmtsAddress MacAddress,  
docsIfCmCapabilities BITS,  
docsIfCmRangingRespTimeout TimeTicks,  
docsIfCmRangingTimeout TimeInterval  
}

docsIfCmCmtsAddress OBJECT-TYPE  
SYNTAX MacAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Identifies the CMTS that is believed to control this MAC  
domain. At the CM, this will be the source address from  
SYNC, MAP, and other MAC-layer messages. If the CMTS is  
unknown, returns 00-00-00-00-00-00."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.2.2."  
::= { docsIfCmMacEntry 1 }

docsIfCmCapabilities OBJECT-TYPE  
SYNTAX BITS {

```
    atmCells(0),
    concatenation(1)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Identifies the capabilities of the MAC implementation
    at this interface. Note that packet transmission is
    always supported. Therefore, there is no specific bit
    required to explicitly indicate this capability.
    Note that BITS objects are encoded most significant bit
    first. For example, if bit 1 is set, the value of this
    object is the octet string '40'H."
 ::= { docsIfCmMacEntry 2 }
```

#### docsIfCmRangingRespTimeout OBJECT-TYPE

```
SYNTAX TimeTicks
MAX-ACCESS read-write
STATUS obsolete
DESCRIPTION
```

"Waiting time for a Ranging Response packet.  
This object has been obsoleted and replaced by  
docsIfCmRangingTimeout to correct

the typing to

TimeInterval."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.1.6."

```
DEFVAL { 20 }
```

```
::= { docsIfCmMacEntry 3 }
```

#### docsIfCmRangingTimeout OBJECT-TYPE

```
SYNTAX TimeInterval
UNITS "HundredOfSeconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
```

"Waiting time for a Ranging Response packet.  
This object MUST NOT persist at reinitialization  
of the managed system."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.1.6, timer T3."

```

DEFVAL { 20 }
::= { docsIfCmMacEntry 4 }

--
-- CM status table.
-- This table is implemented only at the CM.
--

docsIfCmStatusTable OBJECT-TYPE
    SYNTAX     SEQUENCE OF DocsIfCmStatusEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "This table maintains a number of status objects
        and counters for Cable Modems."
    ::= { docsIfCmObjects 2 }

docsIfCmStatusEntry OBJECT-TYPE
    SYNTAX     DocsIfCmStatusEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "A set of status objects and counters for a single MAC
        layer instance in Cable Modem.
        An entry in this table exists for each ifEntry with an
        ifType of docsCableMaclayer(127)."

```

```

docsIfCmStatusDocsisOperMode    DocsisQosVersion,
docsIfCmStatusModulationType    DocsisUpstreamType,
docsIfCmStatusEqualizationData  DocsEqualizerData,
docsIfCmStatusUCCs              Counter32,
docsIfCmStatusUCCFails          Counter32
}

```

docsIfCmStatusValue OBJECT-TYPE

```

SYNTAX    INTEGER {
    other(1),
    notReady(2),
    notSynchronized(3),
    phySynchronized(4),
    usParametersAcquired(5),
    rangingComplete(6),
    ipComplete(7),
    todEstablished(8),
    securityEstablished(9),
    paramTransferComplete(10),
    registrationComplete(11),
    operational(12),
    accessDenied(13)
}

```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current Cable Modem connectivity state, as specified in the RF Interface Specification. Interpretations for state values 1-12 are clearly outlined in the SP-RFI reference given below.

The state value accessDenied(13) indicates the CMTS has sent a Registration Aborted message to the CM. The same state is reported as accessDenied(7) by the CMTS object docsIfCmtsCmStatusValue."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 11.2.

Data-Over-Cable Service Interface Specifications:

Operations Support System Interface Specification  
 SP-OSSIv2.0-I09-050812,

Section 6.3.4.2."

```
 ::= { docsIfCmStatusEntry 1 }
```

docsIfCmStatusCode OBJECT-TYPE

SYNTAX OCTET STRING (SIZE( 0 | 5 | 6 ))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Status code for a Cable Modem as defined in the OSSI Specification. The status code consists of a single character indicating error groups, followed by a two- or three-digit number indicating the status condition, followed by a decimal.

An example of a returned value could be 'T101.0'.

The zero-length OCTET STRING indicates no status code yet registered."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Operations Support System Interface Specification SP-OSSIV2.0-I09-050812, Annex D."

::= { docsIfCmStatusEntry 2 }

docsIfCmStatusTxPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS "TenthdBmV"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The operational transmit power for the attached upstream channel."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.18."

::= { docsIfCmStatusEntry 3 }

docsIfCmStatusResets OBJECT-TYPE

SYNTAX Counter32

UNITS "resets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM reset or initialized this interface.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."



::= { docsIfCmStatusEntry 4 }

docsIfCmStatusLostSyncs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM lost synchronization with the downstream channel. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.2."

::= { docsIfCmStatusEntry 5 }

docsIfCmStatusInvalidMaps OBJECT-TYPE

SYNTAX Counter32

UNITS "maps"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid MAP messages. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.4."

::= { docsIfCmStatusEntry 6 }

docsIfCmStatusInvalidUcDs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid UCD messages. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.3."

::= { docsIfCmStatusEntry 7 }

docsIfCmStatusInvalidRangingResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid ranging response  
messages.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.6."

::= { docsIfCmStatusEntry 8 }

docsIfCmStatusInvalidRegistrationResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times the CM received invalid registration  
response messages.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as

indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 8.3.8."

::= { docsIfCmStatusEntry 9 }

docsIfCmStatusT1Timeouts OBJECT-TYPE

SYNTAX Counter32  
UNITS "timeouts"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Number of times counter T1 expired in the CM.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 9-2."

::= { docsIfCmStatusEntry 10 }

#### docsIfCmStatusT2Timeouts OBJECT-TYPE

SYNTAX Counter32  
UNITS "timeouts"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Number of times counter T2 expired in the CM.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 9-2."

::= { docsIfCmStatusEntry 11 }

#### docsIfCmStatusT3Timeouts OBJECT-TYPE

SYNTAX Counter32  
UNITS "timeouts"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Number of times counter T3 expired in the CM.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times

as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 9-2."

::= { docsIfCmStatusEntry 12 }

## docsIfCmStatusT4Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"Number of times counter T4 expired in the CM. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 9-2."

::= { docsIfCmStatusEntry 13 }

## docsIfCmStatusRangingAborted OBJECT-TYPE

### OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"Number of times the ranging process was aborted by the CMTS. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.3.3."

::= { docsIfCmStatusEntry 14 }

## docsIfCmStatusDocsisOperMode OBJECT-TYPE

SYNTAX DocsisQosVersion

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indication of whether the device has registered using 1.0 Class of Service or 1.1 Quality of Service. An unregistered CM SHOULD indicate 'docsis11'

for a

docsIfDocsisBaseCapability value of DOCSIS 1.1/2.0. An unregistered CM SHOULD indicate 'docsis10' for a docsIfDocsisBaseCapability value of DOCSIS 1.0."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex G."

::= { docsIfCmStatusEntry 15 }

docsIfCmStatusModulationType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates modulation type status currently used by the CM. Since this object specifically identifies PHY mode, the shared upstream channel type is not permitted."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.1."

::= { docsIfCmStatusEntry 16 }

docsIfCmStatusEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Pre-equalization data for this CM after convolution with data indicated in the RNG-RSP. This data is valid when docsIfUpChannelPreEqEnable is set to true."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 8-23."

::= { docsIfCmStatusEntry 17 }

docsIfCmStatusUCCs OBJECT-TYPE

SYNTAX Counter32  
UNITS "attempts"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of successful Upstream Channel Change transactions.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmStatusEntry 18 }

docsIfCmStatusUCCFails OBJECT-TYPE

SYNTAX Counter32  
UNITS "attempts"

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of failed Upstream Channel Change transactions.  
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmStatusEntry 19 }

--  
-- The Cable Modem Service Table  
--

docsIfCmServiceTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmServiceEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Describes the attributes of each upstream service queue on a CM."  
::= { docsIfCmObjects 3 }

docsIfCmServiceEntry OBJECT-TYPE

SYNTAX DocsIfCmServiceEntry  
MAX-ACCESS not-accessible  
STATUS

current

DESCRIPTION

"Describes the attributes of an upstream bandwidth service queue.

An entry in this table exists for each Service ID.

The primary index is an ifIndex with an ifType of docsCableMaclayer(127)."

INDEX { ifIndex, docsIfCmServiceId }

::= { docsIfCmServiceTable 1 }

DocsIfCmServiceEntry ::= SEQUENCE {

docsIfCmServiceId Integer32,  
docsIfCmServiceQosProfile Integer32,  
docsIfCmServiceTxSlotsImmed Counter32,  
docsIfCmServiceTxSlotsDed Counter32,  
docsIfCmServiceTxRetries Counter32,  
docsIfCmServiceTxExceededs Counter32,  
docsIfCmServiceRqRetries Counter32,  
docsIfCmServiceRqExceededs Counter32,  
docsIfCmServiceExtTxSlotsImmed Counter64,  
docsIfCmServiceExtTxSlotsDed Counter64

}

docsIfCmServiceId OBJECT-TYPE

SYNTAX Integer32 (1..16383)

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"Identifies a service queue for upstream bandwidth. The attributes of this service queue are shared between the CM and the CMTS. The CMTS allocates upstream bandwidth to this service queue based on requests from the CM and on the class of service associated with this queue."

::= { docsIfCmServiceEntry 1 }

docsIfCmServiceQosProfile OBJECT-TYPE

SYNTAX Integer32 (0..16383)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index in docsIfQosProfileTable describing the quality of service attributes associated with this particular service. If no associated entry in docsIfQosProfileTable exists, this object returns a value of zero."

::= { docsIfCmServiceEntry 2 }

docsIfCmServiceTxSlotsImmed OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in immediate (contention) mode. This includes only those PDUs that are presumed to have arrived at the head-end (i.e., those that were explicitly acknowledged). It does not include retransmission attempts or mini-slots used by requests.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 3 }

docsIfCmServiceTxSlotsDed OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in dedicated mode (i.e., as a result of a unicast Data Grant).

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 4 }



docsIfCmServiceTxRetries OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of attempts to transmit data PDUs containing requests for acknowledgment that did not result in acknowledgment.

Discontinuities in the value of

this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 5 }

docsIfCmServiceTxExceededs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of data PDU transmission failures due to excessive retries without acknowledgment.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications:

Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 6 }

docsIfCmServiceRqRetries OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of attempts to transmit bandwidth requests that did not result in acknowledgment.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 7 }

#### docsIfCmServiceRqExceededs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS

current

#### DESCRIPTION

"The number of requests for bandwidth that failed due to excessive retries without acknowledgment.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 8 }

#### docsIfCmServiceExtTxSlotsImmed OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in immediate (contention) mode. This includes only those PDUs that are presumed to have arrived at the head-end

(i.e., those that were explicitly

acknowledged). It does not include retransmission attempts or mini-slots used by requests.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 9 }

docsIfCmServiceExtTxSlotsDed OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of upstream mini-slots that have been used to transmit data PDUs in dedicated mode (i.e., as a result of a unicast Data Grant).

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.4."

::= { docsIfCmServiceEntry 10 }

--

-- CMTS GROUP

--

--

-- The CMTS MAC Table

--

docsIfCmtsMacTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of each CMTS MAC interface, extending the information available from ifEntry.

Mandatory for all CMTS devices."

::= { docsIfCmtsObjects 1 }

docsIfCmtsMacEntry OBJECT-TYPE

SYNTAX DocsIfCmtsMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry containing objects describing attributes of each MAC entry, extending the information in ifEntry.

An entry in this table exists for each ifEntry with an ifType of docsCableMaclayer(127)."

INDEX { ifIndex }

::= { docsIfCmtsMacTable 1 }

DocsIfCmtsMacEntry ::= SEQUENCE {

docsIfCmtsCapabilities BITS,  
docsIfCmtsSyncInterval Integer32,  
docsIfCmtsUcdInterval Integer32,  
docsIfCmtsMaxServiceIds Integer32,  
docsIfCmtsInsertionInterval TimeTicks, -- Obsolete  
docsIfCmtsInvitedRangingAttempts Integer32,  
docsIfCmtsInsertInterval TimeInterval,  
docsIfCmtsMacStorageType StorageType

}

docsIfCmtsCapabilities OBJECT-TYPE

SYNTAX BITS {

atmCells(0),  
concatenation(1)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Identifies the capabilities of the CMTS MAC implementation at this interface. Note

that packet

transmission is always supported. Therefore, there is no specific bit required to explicitly indicate this capability.

Note that BITS objects are encoded most significant bit first. For example, if bit 1 is set, the value of this object is the octet string '40'H."

::= { docsIfCmtsMacEntry 1 }

docsIfCmtsSyncInterval OBJECT-TYPE

SYNTAX Integer32 (1..200)  
UNITS "Milliseconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
"The interval between CMTS transmission of successive SYNC  
messages at this interface."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.3."  
::= { docsIfCmtsMacEntry 2 }

docsIfCmtsUcdInterval OBJECT-TYPE

SYNTAX Integer32 (1..2000)  
UNITS "Milliseconds"  
MAX-ACCESS read-write  
  
STATUS current  
DESCRIPTION  
"The interval between CMTS transmission of successive  
Upstream Channel Descriptor messages for each upstream  
channel at this interface."  
REFERENCE  
"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Section 9.3"  
::= { docsIfCmtsMacEntry 3 }

docsIfCmtsMaxServiceIds OBJECT-TYPE

SYNTAX Integer32 (1..16383)  
UNITS "SIDs"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The maximum number of service IDs that may be  
simultaneously active."  
::= { docsIfCmtsMacEntry 4 }

docsIfCmtsInsertionInterval OBJECT-TYPE

SYNTAX TimeTicks  
MAX-ACCESS read-write  
STATUS obsolete  
DESCRIPTION  
"The amount of time to elapse between each broadcast  
initial maintenance grant. Broadcast initial maintenance  
grants are used to allow

new cable modems to join the network. Zero indicates that a vendor-specific algorithm is used instead of a fixed time. The maximum amount of

time permitted by the specification is 2 seconds.

This object has been obsoleted and replaced by docsIfCmtsInsertInterval to fix a SYNTAX typing problem."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex B."

::= { docsIfCmtsMacEntry 5 }

docsIfCmtsInvitedRangingAttempts OBJECT-TYPE

SYNTAX Integer32 (0..1024)

UNITS "attempts"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The maximum number of attempts to make on invitations for ranging requests. A value of zero means the system SHOULD attempt to range forever."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 9.3.3 and Annex B."

::= { docsIfCmtsMacEntry 6 }

docsIfCmtsInsertInterval OBJECT-TYPE

SYNTAX TimeInterval

UNITS "HundredOfSeconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The amount of time to elapse between each broadcast initial maintenance grant. Broadcast initial maintenance grants are used to allow new cable modems to join the network. Zero indicates that a vendor-specific algorithm is used instead of a fixed time. The maximum amount of time permitted by the specification is 2 seconds."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex B."

::= { docsIfCmtsMacEntry 7 }

docsIfCmtsMacStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The storage type for this conceptual row.

Entries with this object set to permanent(4)  
do not require write operations for read-write  
objects."

::= { docsIfCmtsMacEntry 8 }

--

--

-- CMTS status table.

--

docsIfCmtsStatusTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"For the MAC layer, this group maintains a number of  
status objects and counters."

::= { docsIfCmtsObjects 2 }

docsIfCmtsStatusEntry OBJECT-TYPE

SYNTAX DocsIfCmtsStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Status entry for a single MAC layer.

An entry in this table exists for each ifEntry with an  
ifType of docsCableMaclayer(127)."

INDEX { ifIndex }

::= { docsIfCmtsStatusTable 1 }

DocsIfCmtsStatusEntry ::= SEQUENCE {

docsIfCmtsStatusInvalidRangeReqs

Counter32,

docsIfCmtsStatusRangingAborted Counter32,

docsIfCmtsStatusInvalidRegReqs Counter32,

docsIfCmtsStatusFailedRegReqs Counter32,

docsIfCmtsStatusInvalidDataReqs Counter32,

```
docsIfCmtsStatusT5Timeouts Counter32
}
```

docsIfCmtsStatusInvalidRangeReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts invalid RNG-REQ messages received on this interface.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.5."

::= { docsIfCmtsStatusEntry 1 }

docsIfCmtsStatusRangingAborted OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts ranging attempts that were explicitly aborted by the CMTS.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.6."

::= { docsIfCmtsStatusEntry 2 }

docsIfCmtsStatusInvalidRegReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION



"This object counts invalid REG-REQ messages received on this interface; that is, syntax, out of range parameters, or erroneous requests. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.7."

::= { docsIfCmtsStatusEntry 3 }

docsIfCmtsStatusFailedRegReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "attempts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts failed registration attempts. Included are docsIfCmtsStatusInvalidRegReqs, authentication, and class of service failures.

Discontinuities in the value of this counter can occur at reinitialization

of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.3.7."

::= { docsIfCmtsStatusEntry 4 }

docsIfCmtsStatusInvalidDataReqs OBJECT-TYPE

SYNTAX Counter32

UNITS "messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts invalid data request messages received on this interface.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsStatusEntry 5 }

docsIfCmtsStatusT5Timeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts the number of times counter T5  
expired on this interface.

Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Figure 9-2."

::= { docsIfCmtsStatusEntry 6 }

--  
-- CM status table (within CMTS).  
-- This table is implemented only at the CMTS.  
-- It contains per-CM status information available in the CMTS.  
--

docsIfCmtsCmStatusTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of objects in the CMTS, maintained for each  
cable modem connected to this CMTS."

::= { docsIfCmtsObjects 3 }

docsIfCmtsCmStatusEntry OBJECT-TYPE

SYNTAX DocsIfCmtsCmStatusEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Status information for a single cable modem.

An entry in this table exists for each cable modem  
that is connected to the CMTS implementing this table."

INDEX { docsIfCmtsCmStatusIndex }

::= { docsIfCmtsCmStatusTable 1 }

```

DocsIfCmtsCmStatusEntry ::= SEQUENCE {
    docsIfCmtsCmStatusIndex      Integer32,
    docsIfCmtsCmStatusMacAddress  MacAddress,
    docsIfCmtsCmStatusIpAddress  IPAddress, -- deprecated
    docsIfCmtsCmStatusDownChannelIfIndex  InterfaceIndexOrZero,
    docsIfCmtsCmStatusUpChannelIfIndex  InterfaceIndexOrZero,
    docsIfCmtsCmStatusRxPower      TenthdBmV,
    docsIfCmtsCmStatusTimingOffset  Unsigned32,
    docsIfCmtsCmStatusEqualizationData
DocsEqualizerData,
    docsIfCmtsCmStatusValue      INTEGER,
    docsIfCmtsCmStatusUnerrored  Counter32,
    docsIfCmtsCmStatusCorrecteds  Counter32,
    docsIfCmtsCmStatusUncorrectables  Counter32,
    docsIfCmtsCmStatusSignalNoise  TenthdB,
    docsIfCmtsCmStatusMicroreflections  Integer32,
    docsIfCmtsCmStatusExtUnerrored  Counter64,
    docsIfCmtsCmStatusExtCorrecteds  Counter64,
    docsIfCmtsCmStatusExtUncorrectables  Counter64,
    docsIfCmtsCmStatusDocsisRegMode  DocsisQosVersion,
    docsIfCmtsCmStatusModulationType  DocsisUpstreamType,
    docsIfCmtsCmStatusInetAddressType  InetAddressType,
    docsIfCmtsCmStatusInetAddress  InetAddress,

    docsIfCmtsCmStatusValueLastUpdate  TimeStamp,
    docsIfCmtsCmStatusHighResolutionTimingOffset  Unsigned32
}

```

docsIfCmtsCmStatusIndex OBJECT-TYPE

SYNTAX

Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index value to uniquely identify an entry in this table.

For an individual cable modem, this index value SHOULD

NOT change during CMTS uptime."

::= { docsIfCmtsCmStatusEntry 1 }

docsIfCmtsCmStatusMacAddress OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"MAC address of the cable modem. If the cable modem has

multiple MAC addresses, this is the MAC address associated with the Cable interface."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 8.2.2."

::= { docsIfCmtsCmStatusEntry 2 }

#### docsIfCmtsCmStatusIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

#### DESCRIPTION

"IP address

of this cable modem. If the cable modem has no

IP address assigned, or the IP address is unknown, this object returns a value of 0.0.0.0. If the cable modem has multiple IP addresses, this object returns the IP address associated with the Cable interface.

This object has been deprecated and replaced by docsIfCmtsCmStatusInetAddressType and docsIfCmtsCmStatusInetAddress, to enable IPv6 addressing in the future."

::= { docsIfCmtsCmStatusEntry 3 }

#### docsIfCmtsCmStatusDownChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"IfIndex of the downstream channel that this CM is connected to. If the downstream channel is unknown, this object returns a value of zero."

::= { docsIfCmtsCmStatusEntry 4 }

#### docsIfCmtsCmStatusUpChannelIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS

read-only

STATUS current

#### DESCRIPTION

"For DOCSIS 2.0, indicates the ifIndex of the logical upstream channel (ifType 205) this CM is connected to.

For DOCSIS 1.x, indicates the ifIndex of the upstream channel (ifType 129) this CM is connected to.

If the upstream channel is unknown, this object returns a value of zero."

```
::= { docsIfCmtsCmStatusEntry 5 }
```

#### docsIfCmtsCmStatusRxPower OBJECT-TYPE

SYNTAX TenthdBmV

UNITS "TenthdBmV"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The receive power as perceived for upstream data from this cable modem.

If the receive power is unknown, this object returns a value of zero."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.18."

```
::= { docsIfCmtsCmStatusEntry 6
```

```
}
```

#### docsIfCmtsCmStatusTimingOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"A measure of the current round trip time for this CM.

Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS. Units are in terms of (6.25 microseconds/64). Returns zero if the value is unknown.

For channels requiring finer resolution, please refer to object docsIfCmtsCmStatusHighResolutionTimingOffset."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.17."

```
::= { docsIfCmtsCmStatusEntry 7 }
```

#### docsIfCmtsCmStatusEqualizationData OBJECT-TYPE

SYNTAX DocsEqualizerData

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Equalization data for this CM, as measured by the CMTS."

Returns the zero-length OCTET STRING if the value is unknown or if there is no equalization data available or defined."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Figure 8-23."

::= { docsIfCmtsCmStatusEntry 8 }

#### docsIfCmtsCmStatusValue OBJECT-TYPE

SYNTAX INTEGER {

other(1),  
ranging(2),  
rangingAborted(3),  
rangingComplete(4),  
ipComplete(5),  
registrationComplete(6),  
accessDenied(7),  
operational(8),  
-- value 8 should not be used  
registeredBPIInitializing(9)

}

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current cable modem connectivity state, as specified in the RF Interface Specification. Returned status information is the CM status, as assumed by the CMTS, and indicates

the following events:

other(1)

Any state other than below.

ranging(2)

The CMTS has received an Initial Ranging Request message from the CM, and the ranging process is not yet complete.

rangingAborted(3)

The CMTS has sent a Ranging Abort message to the CM.

rangingComplete(4)

The CMTS has sent a Ranging Complete message to the CM.

ipComplete(5)

The CMTS has received a DHCP reply message and forwarded it to the CM.

registrationComplete(6)

The CMTS has sent a Registration Response message to

the CM.

accessDenied(7)

The CMTS has sent a Registration Aborted message to the CM.

operational(8)

Value 8 is considered reserved and should not be defined in future revisions of this MIB module to avoid conflict with documented

implementations that support value 8 to

indicate operational state after completing the BPI initialization process.

registeredBPIInitializing(9)

Baseline Privacy (BPI) is enabled and the CMTS is in the process of completing BPI initialization. This state MAY last for a significant length of time if failures occur during the initialization process. After completion of BPI initialization, the CMTS will report registrationComplete(6).

The CMTS only needs to report states it is able to detect."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 11.2."

::= { docsIfCmtsCmStatusEntry 9 }

docsIfCmtsCmStatusUnerrored OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Codewords received without error from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 10 }

docsIfCmtsCmStatusCorrected OBJECT-TYPE

SYNTAX Counter32

UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Codewords received with correctable errors from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime

for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 11 }

docsIfCmtsCmStatusUncorrectables OBJECT-TYPE

SYNTAX Counter32  
UNITS "codewords"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Codewords received with uncorrectable errors from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.4."

::= { docsIfCmtsCmStatusEntry 12 }

docsIfCmtsCmStatusSignalNoise OBJECT-TYPE

SYNTAX TenthdB  
UNITS "TenthdB"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Signal/Noise ratio as perceived for upstream data from this cable modem.

If the Signal/Noise is unknown, this object returns a value of zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio



Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 4-1 and 4-2."

::= { docsIfCmtsCmStatusEntry 13 }

docsIfCmtsCmStatusMicroreflections OBJECT-TYPE

SYNTAX Integer32 (0..255)

UNITS "-dBc"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Total microreflections, including in-channel response as perceived on this interface, measured in dBc below the signal level.

This object is not assumed to return an absolutely accurate value, but it gives a rough indication of microreflections

received on this interface.

It is up to the implementer to provide information as accurately as possible.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 4-1 and 4-2"

::= { docsIfCmtsCmStatusEntry 14 }

docsIfCmtsCmStatusExtUnerrored OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received without error from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the

value of

ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.5."

::= { docsIfCmtsCmStatusEntry 15 }

docsIfCmtsCmStatusExtCorrecteds OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received with correctable errors from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.5."

::= { docsIfCmtsCmStatusEntry  
16 }

docsIfCmtsCmStatusExtUncorrectables OBJECT-TYPE

SYNTAX Counter64

UNITS "codewords"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Codewords received with uncorrectable errors from this cable modem.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.5."

::= { docsIfCmtsCmStatusEntry 17 }

docsIfCmtsCmStatusDocsisRegMode OBJECT-TYPE

SYNTAX DocsisQosVersion

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indication of whether the CM has registered using 1.0 Class of Service or 1.1 Quality of Service."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Annex G."

::= { docsIfCmtsCmStatusEntry 18 }

## docsIfCmtsCmStatusModulationType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"Indicates modulation type currently used by the CM. Since this object specifically identifies PHY mode, the shared type is not permitted. If the upstream channel is unknown, this object returns a value of zero."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

::= { docsIfCmtsCmStatusEntry 19 }

## docsIfCmtsCmStatusInetAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"The type of internet address of docsIfCmtsCmStatusInetAddress. If the cable modem internet address is unassigned or unknown, then the value of this object is unknown(0)."

::= { docsIfCmtsCmStatusEntry 20 }

## docsIfCmtsCmStatusInetAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

### DESCRIPTION

"Internet address of this cable modem. If the Cable Modem has no Internet address assigned, or the Internet address is unknown, the value of this object is the zero-length OCTET STRING. If the cable modem has multiple Internet addresses, this object returns the Internet address associated with the Cable (i.e., RF MAC) interface."

::= { docsIfCmtsCmStatusEntry 21 }

docsIfCmtsCmStatusValueLastUpdate OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when docsIfCmtsCmStatusValue was last updated."

::= { docsIfCmtsCmStatusEntry 22 }

docsIfCmtsCmStatusHighResolutionTimingOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..4294967295)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A measure of the current round trip time for this CM.

Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS. Units are in terms of (6.25 microseconds/(64\*256)). Returns zero if the value is unknown.

This is the high resolution version of object docsIfCmtsCmStatusTimingOffset, for channels requiring finer resolution."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Section 6.2.17."

::= { docsIfCmtsCmStatusEntry  
23 }

--

-- The CMTS Service Table.

--

docsIfCmtsServiceTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsServiceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of upstream service queues in a Cable Modem Termination System."

::= { docsIfCmtsObjects 4 }

docsIfCmtsServiceEntry OBJECT-TYPE

SYNTAX DocsIfCmtsServiceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes the attributes of a single upstream bandwidth service queue.

Entries in this table exist for each ifEntry with an ifType of docsCableMaclayer(127), and for each service queue (Service ID) within this MAC layer.

Entries in this table are created with the creation of individual Service IDs by the MAC layer and removed when a Service ID is removed."

INDEX { ifIndex, docsIfCmtsServiceId }

::= { docsIfCmtsServiceTable

1 }

DocsIfCmtsServiceEntry ::= SEQUENCE {

```
docsIfCmtsServiceId      Integer32,
docsIfCmtsServiceCmStatusIndex Integer32, -- deprecated
docsIfCmtsServiceAdminStatus INTEGER,
docsIfCmtsServiceQosProfile Integer32,
docsIfCmtsServiceCreateTime TimeStamp,
docsIfCmtsServiceInOctets Counter32,
docsIfCmtsServiceInPackets Counter32,
docsIfCmtsServiceNewCmStatusIndex Integer32
}
```

docsIfCmtsServiceId OBJECT-TYPE

SYNTAX Integer32 (1..16383)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Identifies a service queue for upstream bandwidth. The attributes of this service queue are shared between the Cable Modem and the Cable Modem Termination System. The CMTS allocates upstream bandwidth to this service queue based on requests from the CM and on the class of service

associated with this queue."

::= { docsIfCmtsServiceEntry 1 }

docsIfCmtsServiceCmStatusIndex OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"Pointer to an entry in docsIfCmtsCmStatusTable identifying the cable modem using this Service Queue. If multiple cable modems are using this Service Queue, the value of this object is zero.

This object has been deprecated and replaced by docsIfCmtsServiceNewCmStatusIndex, to fix a mismatch of the value range with respect to docsIfCmtsCmStatusIndex (1..2147483647)."

::= { docsIfCmtsServiceEntry 2 }

docsIfCmtsServiceAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

enabled(1),  
disabled(2),  
destroyed(3) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows a service class for a particular modem to be suppressed,

(re-)enabled, or deleted altogether."

::= { docsIfCmtsServiceEntry 3 }

docsIfCmtsServiceQosProfile OBJECT-TYPE

SYNTAX Integer32 (0..16383)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index in docsIfQosProfileTable describing the quality of service attributes associated with this particular service. If no associated docsIfQosProfileTable entry exists, this object returns a value of zero."

::= { docsIfCmtsServiceEntry 4 }

docsIfCmtsServiceCreateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was created."

::= { docsIfCmtsServiceEntry 5 }

docsIfCmtsServiceInOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "Bytes"

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The cumulative number of Packet Data octets received  
on this Service  
ID. The count does not include the  
size of the Cable MAC header.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsServiceEntry 6 }

docsIfCmtsServiceInPackets OBJECT-TYPE

SYNTAX Counter32  
UNITS "packets"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The cumulative number of Packet Data packets received  
on this Service ID.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
  
::= { docsIfCmtsServiceEntry 7 }

docsIfCmtsServiceNewCmStatusIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)  
MAX-ACCESS  
read-only  
STATUS current  
DESCRIPTION  
"Pointer (via docsIfCmtsCmStatusIndex) to an entry in  
docsIfCmtsCmStatusTable identifying the cable modem  
using this Service Queue. If multiple cable modems are  
using this Service Queue, the value of this object is  
zero."  
::= { docsIfCmtsServiceEntry 8 }

--  
-- The following table provides upstream channel modulation profiles.  
-- Entries in this table can be  
-- re-used by one or more upstream channels. An upstream channel  
-- will have a modulation profile for each value of

-- docsIfModIntervalUsageCode.

--

docsIfCmtsModulationTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsModulationEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a modulation profile associated with one or more upstream channels."

::= { docsIfCmtsObjects 5 }

docsIfCmtsModulationEntry OBJECT-TYPE

SYNTAX DocsIfCmtsModulationEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a modulation profile for an Interval Usage Code for one or more upstream channels.

Entries in this table are created by the operator.

Initial default entries MAY be created at system initialization time, which could report a value of 'permanent' or 'readOnly' for docsIfCmtsModStorageType.

A CMTS MAY reject the creation of additional Interval Usage Codes for a modulation profile being defined at Initialization time.

No individual objects have to be specified in order to create an entry in this table.

Note that some objects do not have DEFVAL clauses but do have calculated defaults and need not be specified during row creation."

INDEX { docsIfCmtsModIndex, docsIfCmtsModIntervalUsageCode }

::= { docsIfCmtsModulationTable 1 }

DocsIfCmtsModulationEntry

::= SEQUENCE {

docsIfCmtsModIndex Integer32,  
docsIfCmtsModIntervalUsageCode INTEGER,  
docsIfCmtsModControl RowStatus,  
docsIfCmtsModType INTEGER,  
docsIfCmtsModPreambleLen Integer32,  
docsIfCmtsModDifferentialEncoding TruthValue,  
docsIfCmtsModFECErrorCorrection Integer32,  
docsIfCmtsModFECCodewordLength Integer32,



```

docsIfCmtsModScramblerSeed      Integer32,
docsIfCmtsModMaxBurstSize      Integer32,
docsIfCmtsModGuardTimeSize     Unsigned32,
docsIfCmtsModLastCodewordShortened TruthValue,
docsIfCmtsModScrambler         TruthValue,
docsIfCmtsModByteInterleaverDepth Unsigned32,
docsIfCmtsModByteInterleaverBlockSize Unsigned32,
docsIfCmtsModPreambleType      INTEGER,
docsIfCmtsModTcmErrorCorrectionOn TruthValue,
docsIfCmtsModScdmaInterleaverStepSize Unsigned32,
docsIfCmtsModScdmaSpreaderEnable TruthValue,
docsIfCmtsModScdmaSubframeCodes Unsigned32,
docsIfCmtsModChannelType       DocsisUpstreamType,
docsIfCmtsModStorageType       StorageType
}

```

docsIfCmtsModIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index into the Channel Modulation table representing a group of Interval Usage Codes, all associated with the same channel."

::= { docsIfCmtsModulationEntry 1 }

docsIfCmtsModIntervalUsageCode OBJECT-TYPE

SYNTAX INTEGER {

request(1),

requestData(2),

initialRanging(3),

periodicRanging(4),

shortData(5),

longData(6),

advPhyShortData(9),

advPhyLongData(10),

ugs(11)

}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index into the Channel Modulation table that, when grouped with other Interval Usage Codes, fully instantiates all modulation sets for a given upstream channel."

## REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-20."

::= { docsIfCmtsModulationEntry 2 }

## docsIfCmtsModControl OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"Controls and reflects the status of rows in this table.

There is no restriction on the changing of values in this table while their associated rows are active, with the exception of:

1. If a modulation profile is being referenced by one or more upstream channels, an attempt to set the value of docsIfCmtsModChannelType returns

an

'inconsistentValue' error.

2. If a modulation profile is being referenced by one or more upstream channels, an attempt to set docsIfCmtsModControl to destroy(6) or notInService(2) returns an 'inconsistentValue' error."

::= { docsIfCmtsModulationEntry 3 }

## docsIfCmtsModType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

qpsk(2),

qam16(3),

qam8(4),

qam32(5),

qam64(6),

qam128(7)

}

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"The modulation type used on this channel. Returns

other(1) if the modulation type is not

qpsk, qam16, qam8, qam32, qam64, or qam128.

Type qam128 is used for SCDMA channels only.

See the reference for the modulation profiles implied by different modulation types."

REFERENCE

"Data-Over-Cable Service Interface Specifications:

Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { qpsk }

::= { docsIfCmtsModulationEntry 4 }

docsIfCmtsModPreambleLen OBJECT-TYPE

SYNTAX Integer32 (0..1536)

UNITS "bits"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The preamble length for this modulation profile in bits.

Default value is the minimum needed by the implementation at the CMTS for the given modulation profile."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

::= { docsIfCmtsModulationEntry 5 }

docsIfCmtsModDifferentialEncoding OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Specifies whether or not differential encoding is used on this channel."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { false }

::= { docsIfCmtsModulationEntry 6 }

docsIfCmtsModFECErrorCorrection OBJECT-TYPE

SYNTAX Integer32 (0..16)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of correctable errored bytes (t) used in forward error correction code. The value of 0 indicates that no correction is employed. The number of check bytes appended will be twice this value."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 0 }

::= { docsIfCmtsModulationEntry 7 }

docsIfCmtsModFECCodewordLength OBJECT-TYPE

SYNTAX Integer32 (1..255)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of data bytes (k) in the forward error correction codeword.

This object is not used if docsIfCmtsModFECErrCorrection is zero."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 32 }

::= { docsIfCmtsModulationEntry 8 }

docsIfCmtsModScramblerSeed OBJECT-TYPE

SYNTAX Integer32 (0..32767)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The 15-bit seed value for the scrambler polynomial."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

DEFVAL { 0 }

::= { docsIfCmtsModulationEntry 9 }

docsIfCmtsModMaxBurstSize OBJECT-TYPE

SYNTAX Integer32

(0..255)

UNITS "mini-slots"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of mini-slots that can be transmitted during this channel's burst time. Returns zero if the burst length is bounded by the allocation MAP rather than by this profile.

Default value is 0, except for shortData, where it is 8."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Table 8-19."

::= { docsIfCmtsModulationEntry 10 }

docsIfCmtsModGuardTimeSize OBJECT-TYPE

SYNTAX Unsigned32

UNITS "Symbol-times"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of symbol-times that MUST follow the end of this channel's burst. Default value is the minimum time needed by the implementation for this modulation profile."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

::= { docsIfCmtsModulationEntry 11 }

docsIfCmtsModLastCodewordShortened OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the last FEC codeword is truncated."

REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { true }

::= { docsIfCmtsModulationEntry 12 }

docsIfCmtsModScrambler OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the scrambler is employed."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { false }

::= { docsIfCmtsModulationEntry 13 }

#### docsIfCmtsModByteInterleaverDepth OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"ATDMA Byte Interleaver Depth (Ir). This object returns 1  
for non-ATDMA profiles."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { 1 }

::= { docsIfCmtsModulationEntry 14 }

#### docsIfCmtsModByteInterleaverBlockSize OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"ATDMA Byte Interleaver Block size (Br). This object  
returns zero for non-ATDMA profiles "

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

DEFVAL { 18 }

::= { docsIfCmtsModulationEntry 15 }

#### docsIfCmtsModPreambleType OBJECT-TYPE

SYNTAX INTEGER {

unknown(0),

qpsk0(1),

qpsk1(2)

}

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Preamble type for DOCSIS 2.0 bursts. The value 'unknown(0)' represents a row entry consisting only of DOCSIS 1.x bursts"

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { qpsk0 }

::= { docsIfCmtsModulationEntry 16 }

#### docsIfCmtsModTcmErrorCorrectionOn OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Trellis Code Modulation (TCM) On/Off. This value returns false for non-S-CDMA profiles."

#### REFERENCE

"Data-Over-Cable

Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { false }

::= { docsIfCmtsModulationEntry 17 }

#### docsIfCmtsModScdmaInterleaverStepSize OBJECT-TYPE

SYNTAX Unsigned32 (0 | 1..32)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" S-CDMA Interleaver step size. This value returns zero for non-S-CDMA profiles."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIV2.0-I10-051209, Tables 6-7, and 8-19."

DEFVAL { 1 }

::= { docsIfCmtsModulationEntry 18 }

#### docsIfCmtsModScdmaSpreaderEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" S-CDMA spreader. This value returns false for non-S-CDMA

profiles. Default value for IUC 3 and 4 is OFF; for

all other IUCs it is ON."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Tables 6-7, and 8-19."

::= { docsIfCmtsModulationEntry 19 }

#### docsIfCmtsModScdmaSubframeCodes OBJECT-TYPE

SYNTAX Unsigned32 (0 | 1..128)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" S-CDMA sub-frame size. This value returns zero  
for non-S-CDMA profiles."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 6-7, and 8-19."

DEFVAL { 1 }

::= { docsIfCmtsModulationEntry 20 }

#### docsIfCmtsModChannelType OBJECT-TYPE

SYNTAX DocsisUpstreamType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Describes the modulation channel type for this modulation  
entry.

All the active

entries in a modulation profile (that is all

active entries that share a common docsIfCmtsModIndex)

MUST have the same value of docsIfCmtsModChannelType."

#### REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio  
Frequency Interface Specification SP-RFIV2.0-I10-051209,  
Table 8-19."

DEFVAL { tdma }

::= { docsIfCmtsModulationEntry 21 }

#### docsIfCmtsModStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-only

STATUS current



DESCRIPTION

"The storage type for this conceptual row.  
Entries with this object set to permanent(4)  
do not require write operations for read-write  
objects."

DEFVAL { nonVolatile }

::= { docsIfCmtsModulationEntry 22 }

docsIfCmtsQosProfilePermissions OBJECT-TYPE

SYNTAX BITS {

createByManagement(0),  
updateByManagement(1),  
createByModems(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies permitted methods of creating  
entries in docsIfQosProfileTable.  
createByManagement(0) is set if entries can be created  
using SNMP. updateByManagement(1) is set if updating  
entries using SNMP is permitted. createByModems(2)  
is set if entries can be created based on information  
in REG-REQ MAC messages received from cable modems.  
Information in this object is only applicable if  
docsIfQosProfileTable is implemented as read-create.  
Otherwise, this object is implemented as read-only  
and returns createByModems(2).  
Either createByManagement(0) or updateByManagement(1)  
MUST be set when writing to this object.  
Note that BITS objects are encoded most significant bit  
first. For example, if bit 2 is set, the value of this  
object is the octet string '20'H."

::= { docsIfCmtsObjects

6 }

docsIfCmtsMacToCmTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsMacToCmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a table to provide a quick access index into the  
docsIfCmtsCmStatusTable. There is exactly one row in this  
table for each row in the docsIfCmtsCmStatusTable. In  
general, the management station SHOULD use this table only

to get a pointer into the docsIfCmtsCmStatusTable (which corresponds to the CM's RF interface MAC address) and SHOULD not iterate (e.g., GetNext through) this table."  
 ::= { docsIfCmtsObjects 7 }

docsIfCmtsMacToCmEntry OBJECT-TYPE

SYNTAX DocsIfCmtsMacToCmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the docsIfCmtsMacToCmTable.

An entry in this table exists for each cable modem that is connected to the CMTS implementing this table."

INDEX { docsIfCmtsCmMac }

::= { docsIfCmtsMacToCmTable 1 }

DocsIfCmtsMacToCmEntry ::= SEQUENCE {

docsIfCmtsCmMac MacAddress,  
docsIfCmtsCmPtr Integer32  
}

docsIfCmtsCmMac OBJECT-TYPE

SYNTAX MacAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The RF side MAC address for the referenced CM (e.g., the interface on the CM that has docsCableMacLayer(127) as its ifType)."

::= { docsIfCmtsMacToCmEntry 1 }

docsIfCmtsCmPtr OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An row index into docsIfCmtsCmStatusTable. When queried with the correct instance value (e.g., a CM's MAC address), returns the index in docsIfCmtsCmStatusTable that represents that CM."

::= { docsIfCmtsMacToCmEntry 2 }

-- The following independent object and associated table provide

-- operators with a mechanism to evaluate the load/utilization of

-- both upstream and downstream physical channels. This information  
-- may be used for capacity planning and incident analysis and may  
-- be particularly helpful in provisioning of high value QOS.  
--  
-- Utilization is expressed as an index representing the calculated  
-- percentage utilization of the upstream or downstream channel in  
-- the most recent sampling interval (i.e., utilization interval).  
-- Refer to the DESCRIPTION field of the  
-- docsIfCmtsChannelUtUtilization object for definitions and  
-- calculation details.

#### docsIfCmtsChannelUtilizationInterval OBJECT-TYPE

SYNTAX Integer32 (0..86400)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The time interval in seconds over which the channel utilization index is calculated. All upstream/downstream channels use the same docsIfCmtsChannelUtilizationInterval.

Setting a value of zero disables utilization reporting. A channel utilization index is calculated over a fixed window applying to the most recent docsIfCmtsChannelUtilizationInterval. It would therefore be prudent to use a relatively short docsIfCmtsChannelUtilizationInterval. It is a vendor decision whether to reset the timer when docsIfCmtsChannelUtilizationInterval is changed during a utilization sampling period."

::= { docsIfCmtsObjects 8 }

#### docsIfCmtsChannelUtilizationTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsChannelUtilizationEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"Reports utilization statistics for attached upstream and downstream physical channels."

::= { docsIfCmtsObjects 9 }

#### docsIfCmtsChannelUtilizationEntry OBJECT-TYPE

SYNTAX DocsIfCmtsChannelUtilizationEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Utilization statistics for a single upstream or downstream physical channel. An entry exists in this table for each ifEntry with an ifType equal to docsCableDownstream (128) or docsCableUpstream (129)."

INDEX { ifIndex, docsIfCmtsChannelUtIfType, docsIfCmtsChannelUtId }

::= { docsIfCmtsChannelUtilizationTable 1 }

DocsIfCmtsChannelUtilizationEntry ::= SEQUENCE { docsIfCmtsChannelUtIfType IANAifType, docsIfCmtsChannelUtId Integer32, docsIfCmtsChannelUtUtilization Integer32 }

docsIfCmtsChannelUtIfType OBJECT-TYPE

SYNTAX IANAifType

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The secondary index into this table. Indicates the IANA interface type associated with this physical channel.

Only docsCableDownstream (128) and

docsCableUpstream

(129) are valid."

::= { docsIfCmtsChannelUtilizationEntry 1 }

docsIfCmtsChannelUtId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The tertiary index into this table. Indicates the CMTS identifier for this physical channel."

::= { docsIfCmtsChannelUtilizationEntry 2 }

docsIfCmtsChannelUtUtilization OBJECT-TYPE

SYNTAX Integer32 (0..100)

UNITS "percent"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The calculated and truncated utilization index for this

physical upstream or downstream channel, accurate as of the most recent docsIfCmtsChannelUtilizationInterval.

#### Upstream Channel Utilization Index:

The upstream channel utilization index is expressed as a percentage of mini-slots utilized on the physical channel, regardless of burst type. For an Initial Maintenance region, the mini-slots for the complete region are considered utilized if the CMTS received an upstream burst within the region from any CM on the physical channel. For contention REQ and REQ/DATA regions, the mini-slots for a transmission opportunity within the region are considered utilized if the CMTS received an upstream burst within the opportunity from any CM on the physical channel. For all other regions, utilized mini-slots are those in which the CMTS granted bandwidth to any unicast SID on the physical channel.

For an upstream interface that has multiple logical upstream channels enabled, the utilization index is a weighted sum of utilization indices for the logical channels. The weight for each utilization index is the percentage of upstream mini-slots allocated for the corresponding logical channel.

#### Example:

If 75% of bandwidth is allocated to the first logical channel and 25% to the second, and the utilization indices for each are 60 and 40, respectively, the

utilization index for the upstream physical channel is  $(60 * 0.75) + (40 * 0.25) = 55$ . This figure applies to the most recent utilization interval.

#### Downstream Channel Utilization Index:

The downstream channel utilization index is a percentage expressing the ratio between bytes used to transmit data versus the total number of bytes transmitted in the raw bandwidth of the MPEG channel. As with the upstream utilization index, the calculated value represents the most recent utilization interval.

Formula:

Downstream utilization index =  
 $(100 * (\text{data bytes} / \text{raw bytes}))$

Definitions:

Data bytes: Number of bytes transmitted as data in the

docsIfCmtsChannelUtilizationInterval.

Identical to docsIfCmtsDownChannelCtrUsed

Bytes measured over the utilization interval.

Raw bandwidth: Total number of bytes available for transmitting data, not including bytes used for headers and other overhead.

Raw bytes: (raw bandwidth \* docsIfCmtsChannelUtilizationInterval).

Identical to docsIfCmtsDownChannelCtrTotal

Bytes measured over the utilization interval."

::= { docsIfCmtsChannelUtilizationEntry 3 }

-- The following table provides operators with input data  
-- appropriate for calculating downstream channel utilization.  
-- Operators may use the docsIfCmtsChannelUtilizationTable or  
-- perform their own polling of the  
-- docsIfCmtsDownChannelCounterTable objects to characterize  
--  
-- their downstream channel usage. The 32-bit counter objects are  
-- included to provide backward compatibility with SNMPv1 managers,  
-- which cannot access 64-bit counter objects.

docsIfCmtsDownChannelCounterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsDownChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table is implemented at the CMTS to collect downstream channel statistics for utilization

calculations."

::= { docsIfCmtsObjects 10 }

docsIfCmtsDownChannelCounterEntry OBJECT-TYPE

SYNTAX DocsIfCmtsDownChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry provides a list of traffic counters for a single downstream channel.

An entry in this table exists for each ifEntry with an ifType of docsCableDownstream(128)."

INDEX { ifIndex }

::= { docsIfCmtsDownChannelCounterTable  
1 }

DocsIfCmtsDownChannelCounterEntry ::= SEQUENCE {  
docsIfCmtsDownChnlCtrId Integer32,  
docsIfCmtsDownChnlCtrTotalBytes Counter32,  
docsIfCmtsDownChnlCtrUsedBytes Counter32,  
docsIfCmtsDownChnlCtrExtTotalBytes Counter64,  
docsIfCmtsDownChnlCtrExtUsedBytes Counter64  
}

docsIfCmtsDownChnlCtrId OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Cable Modem Termination System identification of the downstream channel within this particular MAC interface. If the interface is down, the object returns the most current value. If the downstream channel ID is unknown, this object returns a value of 0."

::= { docsIfCmtsDownChannelCounterEntry 1 }

docsIfCmtsDownChnlCtrTotalBytes OBJECT-TYPE

SYNTAX Counter32

UNITS "Bytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"At the CMTS, the total number of bytes in the Payload portion of MPEG Packets (i.e., not including MPEG header or pointer\_field) transported by this downstream channel. This is the 32-bit version of docsIfCmtsDownChnlCtrExtTotalBytes, included to provide back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 2 }

docsIfCmtsDownChnlCtrUsedBytes OBJECT-TYPE

SYNTAX Counter32  
UNITS "Bytes"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"At the CMTS, the total number of DOCSIS data bytes transported by this downstream channel.

The number of data bytes is defined as the total number

of bytes transported in DOCSIS payloads minus the number of stuff bytes transported in DOCSIS payloads.

This is the 32-bit version of docsIfCmtsDownChnlCtrExtUsedBytes, included to provide back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 3 }

docsIfCmtsDownChnlCtrExtTotalBytes OBJECT-TYPE

SYNTAX Counter64  
UNITS "Bytes"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"At the CMTS, the total number of bytes in the Payload portion of MPEG Packets (i.e., not including MPEG header or pointer\_field) transported by this downstream channel.

This is the 64-bit version of

docsIfCmtsDownChnlCtrTotalBytes and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 4 }

docsIfCmtsDownChnlCtrExtUsedBytes OBJECT-TYPE

SYNTAX Counter64  
UNITS "Bytes"  
MAX-ACCESS read-only

STATUS current



## DESCRIPTION

"At the CMTS, the total number of DOCSIS data bytes transported by this downstream channel. The number of data bytes is defined as the total number of bytes transported in DOCSIS payloads minus the number of stuff bytes transported in DOCSIS payloads.

This is the 64-bit version of docsIfCmtsDownChnlCtrUsedBytes and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsDownChannelCounterEntry 5 }

-- The following table provides operators with input data appropriate  
-- for calculating upstream channel utilization, and for determining  
-- the traffic characteristics of upstream channels. Operators may  
-- use the docsIfCmtsChannelUtilizationTable or perform their own  
-- polling of the docsIfCmtsUpChannelCounterTable objects for  
-- utilization determination.  
-- The first four 32 and 64 objects in this table are mandatory.  
-- Vendors may choose to implement the remaining optional objects to  
-- provide operators with finer characterization of upstream channel  
-- traffic patterns. The 32-bit counter objects are included to  
-- provide backward compatibility with SNMPv1 managers, which cannot  
-- access  
64-bit counter objects.

## docsIfCmtsUpChannelCounterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsIfCmtsUpChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"This table is implemented at the CMTS to provide upstream channel statistics appropriate for channel utilization calculations."

::= { docsIfCmtsObjects 11 }

## docsIfCmtsUpChannelCounterEntry OBJECT-TYPE

SYNTAX DocsIfCmtsUpChannelCounterEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"List of traffic statistics for a single upstream channel.

For DOCSIS 2.0 CMTSs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstreamChannel (205).

For DOCSIS 1.x CMTSs, an entry in this table exists for each ifEntry with an ifType of docsCableUpstream (129)."

INDEX { ifIndex }

::= { docsIfCmtsUpChannelCounterTable 1 }

DocsIfCmtsUpChannelCounterEntry

```
::= SEQUENCE {
    docsIfCmtsUpChnlCtrId          Integer32,
    docsIfCmtsUpChnlCtrTotalMslots Counter32,
    docsIfCmtsUpChnlCtrUcastGrantedMslots Counter32,
    docsIfCmtsUpChnlCtrTotalCntnMslots Counter32,
    docsIfCmtsUpChnlCtrUsedCntnMslots Counter32,
    docsIfCmtsUpChnlCtrExtTotalMslots Counter64,
    docsIfCmtsUpChnlCtrExtUcastGrantedMslots Counter64,
    docsIfCmtsUpChnlCtrExtTotalCntnMslots Counter64,
    docsIfCmtsUpChnlCtrExtUsedCntnMslots Counter64,
    docsIfCmtsUpChnlCtrCollCntnMslots Counter32,
    docsIfCmtsUpChnlCtrTotalCntnReqMslots Counter32,
    docsIfCmtsUpChnlCtrUsedCntnReqMslots Counter32,
    docsIfCmtsUpChnlCtrCollCntnReqMslots Counter32,
    docsIfCmtsUpChnlCtrTotalCntnReqDataMslots Counter32,
    docsIfCmtsUpChnlCtrUsedCntnReqDataMslots Counter32,
    docsIfCmtsUpChnlCtrCollCntnReqDataMslots Counter32,
    docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots Counter32,
    docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots Counter32,
    docsIfCmtsUpChnlCtrCollCntnInitMaintMslots Counter32,
    docsIfCmtsUpChnlCtrExtCollCntnMslots Counter64,
    docsIfCmtsUpChnlCtrExtTotalCntnReqMslots Counter64,
    docsIfCmtsUpChnlCtrExtUsedCntnReqMslots Counter64,
    docsIfCmtsUpChnlCtrExtCollCntnReqMslots Counter64,
    docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots Counter64,
    docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots Counter64,
    docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots Counter64,
    docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots Counter64,
    docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots Counter64,
    docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots Counter64
}
```

docsIfCmtsUpChnlCtrId

OBJECT-TYPE

SYNTAX Integer32 (0..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The CMTS identification of the upstream channel."

::= { docsIfCmtsUpChannelCounterEntry 1 }

docsIfCmtsUpChnlCtrTotalMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of all mini-slots defined for this upstream logical channel. This count includes all IUCs and SIDs, even those allocated to the NULL SID for a 2.0 logical channel that is inactive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalMslots and is included for back compatibility with SNMPv1 managers. Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at

other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 2 }

docsIfCmtsUpChnlCtrUcastGrantedMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of unicast granted mini-slots on the upstream logical channel, regardless of burst type. Unicast granted mini-slots are those in which the CMTS assigned bandwidth to any unicast SID on the logical channel. However, this object does not include minis-lots for reserved IUCs, or grants to SIDs designated as meaning 'no CM'. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUcastGrantedMslots, and is included for back compatibility with SNMPv1 managers. Support for this object is mandatory.

Discontinuities

in the value of this counter can occur

at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 3 }

docsIfCmtsUpChnlCtrTotalCntnMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots defined for this upstream logical channel. This count includes all mini-slots assigned to a broadcast or

multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnMslots, and is included for back compatibility with SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed

system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 4 }

docsIfCmtsUpChnlCtrUsedCntnMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots utilized on the upstream logical channel. For contention regions, utilized mini-slots are those in which the CMTS correctly received an upstream burst from any CM on the upstream logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnMslots and is included for back compatibility with SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 5 }

docsIfCmtsUpChnlCtrExtTotalMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"Current count, from CMTS initialization, of all mini-slots defined for this upstream logical channel. This count includes all IUCs and SIDs, even those allocated to the NULL SID for a 2.0 logical channel that is inactive. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated

ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 6 }

docsIfCmtsUpChnlCtrExtUcastGrantedMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of unicast granted mini-slots on the upstream logical channel, regardless of burst type. Unicast granted mini-slots are those in which the CMTS assigned bandwidth to any unicast SID on the logical channel. However, this object does not include mini-slots for reserved IUCs, or grants to SIDs designated as meaning 'no CM'. This is the 64-bit version of docsIfCmtsUpChnlCtrUcastGrantedMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 7 }

docsIfCmtsUpChnlCtrExtTotalCntnMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots defined for this upstream logical channel. This count includes all mini-slots assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 8 }

## docsIfCmtsUpChnlCtrExtUsedCntnMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"Current count, from CMTS initialization, of contention

mini-slots utilized on the upstream logical channel. For contention regions, utilized mini-slots are those in which the CMTS correctly received an upstream burst from any CM on the upstream logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnMslots and will not be accessible to SNMPv1 managers.

Support for this object is mandatory.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry  
9 }

## docsIfCmtsUpChnlCtrCollCntnMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"Current count, from CMTS initialization, of contention mini-slots subjected to collisions on the upstream logical channel. For contention regions, these are the mini-slots

applicable to bursts that the CMTS detected but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 10 }

docsIfCmtsUpChnlCtrTotalCntnReqMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC1 assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnReqMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 11 }

docsIfCmtsUpChnlCtrUsedCntnReqMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots utilized on this upstream logical channel. This count includes all contention mini-slots for IUC1 applicable to bursts that the CMTS correctly received. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnReqMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 12 }

docsIfCmtsUpChnlCtrCollCntnReqMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots subjected to collisions

on this upstream

logical channel. This includes all contention mini-slots for IUC1 applicable to bursts that the CMTS detected but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnReqMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 13 }

docsIfCmtsUpChnlCtrTotalCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention

request data mini-slots defined for this upstream logical channel. This count includes all

mini-slots for IUC2

assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 14 }



docsIfCmtsUpChnlCtrUsedCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS correctly received.

This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots and is included for back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 15 }

docsIfCmtsUpChnlCtrCollCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS detected, but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots

and is included for back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 16 }

docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention initial maintenance mini-slots defined for this upstream logical channel. This includes all mini-slots for IUC3 assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots and is included for back compatibility

with SNMPv1

managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 17 }

docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention initial maintenance mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC3 applicable to bursts that the CMTS correctly received. This is the 32-bit version of docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 18 }

docsIfCmtsUpChnlCtrCollCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter32

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention initial maintenance mini-slots subjected to collisions on this upstream logical channel. This includes all

contention mini-slots for IUC3 applicable to bursts that the CMTS detected, but could not correctly receive.

This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots and is included for back compatibility with SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization

of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 19 }

docsIfCmtsUpChnlCtrExtCollCntnMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of collision contention mini-slots on the upstream logical channel.

For contention regions, these are the mini-slots applicable to bursts that the CMTS detected, but could not correctly

receive. This is the 64-bit version of

docsIfCmtsUpChnlCtrCollCntnMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other

times as indicated by the value of

ifCounterDiscontinuityTime

for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 20 }

docsIfCmtsUpChnlCtrExtTotalCntnReqMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots defined for this upstream logical

channel. This count includes all mini-slots for IUC1 assigned to a broadcast or multicast SID on the logical

channel. This is the 64-bit version of

docsIfCmtsUpChnlCtrTotalCntnReqMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
 ::= { docsIfCmtsUpChannelCounterEntry 21 }

docsIfCmtsUpChnlCtrExtUsedCntnReqMslots

OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots utilized on this upstream logical channel. This count includes all contention mini-slots for IUC1 applicable to bursts that the CMTS correctly received. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnReqMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 22 }

docsIfCmtsUpChnlCtrExtCollCntnReqMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"Current count, from CMTS initialization, of contention request mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC1 applicable to bursts that the CMTS detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnReqMslots and will not be accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 23 }

docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC2 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 24 }

docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS correctly received. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 25 }

docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots OBJECT-TYPE

SYNTAX Counter64  
UNITS "mini-slots"  
MAX-ACCESS read-only  
STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS

detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 26 }

docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of initial maintenance mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC3 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 27 }

docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Current count, from CMTS initialization, of initial maintenance mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC3 applicable to bursts that the CMTS correctly received. This is the 64-bit version of

docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots  
and will not be accessible to SNMPv1 managers.

Discontinuities

in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 28 }

docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots OBJECT-TYPE

SYNTAX Counter64

UNITS "mini-slots"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"Current count, from CMTS initialization, of contention  
initial maintenance mini-slots subjected to collisions on  
this upstream logical channel. This includes all  
contention mini-slots for IUC3 applicable to bursts that  
the CMTS detected, but could not correctly receive.  
This is the 64-bit version of  
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots and will not  
be accessible to SNMPv1 managers.  
Discontinuities in the value of this counter can occur  
at reinitialization of the managed system, and at other  
times as indicated by the value of  
ifCounterDiscontinuityTime for the associated ifIndex."  
::= { docsIfCmtsUpChannelCounterEntry 29 }

--

-- notification group is for future extension.

--

docsIfNotification OBJECT IDENTIFIER ::= { docsIfMib 2 }

--

-- MIB Compliance statements.

--

--

-- Conformance definitions

--

docsIfConformance OBJECT IDENTIFIER ::= { docsIfMib 3 }

docsIfCompliances OBJECT IDENTIFIER ::= { docsIfConformance 1 }

docsIfGroups OBJECT IDENTIFIER ::= { docsIfConformance 2 }

docsIfBasicCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The compliance statement for devices that implement  
DOCSIS 1.x compliant Radio Frequency Interfaces."

MODULE -- docsIfMib

-- unconditionally mandatory groups

MANDATORY-GROUPS {

docsIfBasicGroup

}

-- conditionally mandatory group

GROUP docsIfCmGroup

DESCRIPTION

"This group is implemented only in cable modems, not in  
cable modem termination systems."

-- conditionally mandatory group

GROUP docsIfCmtsGroup

DESCRIPTION

"This group is implemented only in cable modem termination  
systems, not in cable modems."

OBJECT docsIfDownChannelFrequency

WRITE-SYNTAX Integer32 (54000000..86000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems. The values above are  
appropriate for a cable plant using a Sub-Split channel  
plan. If DOCSIS is extended to cover other types of  
channel plans (and frequency allocations), this object  
will be modified accordingly."

OBJECT docsIfDownChannelWidth

WRITE-SYNTAX Integer32 (6000000)

MIN-ACCESS read-only

DESCRIPTION

"It is important to implement this object as read-only.  
In cable modems, this object is always



implemented as

read-only. The above value is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. If DOCSIS is extended to work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfDownChannelModulation

```
WRITE-SYNTAX INTEGER {  
    qam64 (3),  
    qam256 (4)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfDownChannelInterleave

```
WRITE-SYNTAX INTEGER {  
    taps8Increment16(3),  
    taps16Increment8(4),  
    taps32Increment4(5),  
  
    taps64Increment2(6),  
    taps128Increment1(7)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

```
WRITE-SYNTAX Integer32 (5000000..42000000)
```

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems. The values above are appropriate for a cable plant using a Sub-Split channel plan. If DOCSIS is extended to cover other types of

channel plans (and frequency allocations), this object will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..3200000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems; read-only in cable modems. The above value is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. If DOCSIS is extended to work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelSlotSize

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems. It is compliant to implement this object as read-only in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems; read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfQosProfPriority

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant  
to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxTxBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems."

It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfStatus

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.

It is compliant

to implement this object as read-only

in cable modem termination systems."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

WRITE-SYNTAX BITS {

createByManagement(0),

updateByManagement(1)

}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType  
WRITE-SYNTAX INTEGER {  
    qpsk (2),  
    qam16 (3)  
}  
DESCRIPTION  
"A management station MAY only set 16QAM or QPSK modulation,  
but others might be possible, based on device  
configuration."

OBJECT docsIfCmtsModPreambleLen  
SYNTAX Integer32 (0..1024)  
DESCRIPTION  
"The range of the values for this MODULE-COMPLIANCE  
is 0..1024."

OBJECT docsIfCmtsModFECErrorCorrection  
SYNTAX Integer32 (0..10)  
DESCRIPTION  
"The range of the values for this MODULE-COMPLIANCE  
is 0..10."

::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE  
STATUS current  
DESCRIPTION  
"The compliance statement for devices that implement  
DOCSIS 2.0 Radio Frequency Interfaces."

MODULE -- docsIfMib

-- unconditionally  
mandatory groups  
MANDATORY-GROUPS {  
    docsIfBasicGroupV2  
}

-- conditionally mandatory group  
GROUP docsIfCmGroupV2  
DESCRIPTION  
"This group is implemented only in cable modems, not in  
cable modem termination systems."

-- conditionally mandatory group

GROUP docsIfCmtsGroupV2

DESCRIPTION

"This group is implemented only in cable modem termination systems, not in cable modems."

OBJECT docsIfDownChannelFrequency

WRITE-SYNTAX Integer32 (47000000..862000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems.

A range of 54MHz to 860MHz is appropriate for a cable plant using a North American Sub-Split channel plan.

The spectrum range has been expanded to accommodate a lower edge of 47MHz and an upper edge of 862MHz for some European channel plans.

If DOCSIS is extended to cover other

types of channel

plans (and frequency allocations), this object will be modified accordingly."

OBJECT docsIfDownChannelWidth

WRITE-SYNTAX Integer32 (6000000 | 8000000)

MIN-ACCESS read-only

DESCRIPTION

"It is important to implement this object as read-only.

In cable modems, this object is always implemented as read-only. The value of 6 MHz is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. The value of 8 MHz is appropriate for cable plants running under ETSI standards. For other regional standards, this object will be modified accordingly."

OBJECT docsIfDownChannelModulation

WRITE-SYNTAX INTEGER {  
    qam64 (3),  
    qam256 (4)  
}

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;

read-only in cable modems."

OBJECT docsIfDownChannelInterleave

WRITE-SYNTAX INTEGER {

taps8Increment16(3),

taps16Increment8(4),

taps32Increment4(5),

taps64Increment2(6),

taps128Increment1(7),

taps12increment17(8)

}

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfDownChannelPower

MIN-ACCESS read-only

DESCRIPTION

"Read-write in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelFrequency

WRITE-SYNTAX Integer32 (5000000..65000000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems;  
read-only in cable modems.

A range of 5MHz to 42MHz is appropriate for a cable plant using a North American Sub-Split channel plan.

The spectrum range has been expanded to accommodate an upper edge of 65MHz for some European channel plans.

If DOCSIS is extended to cover other types of channel plans (and frequency allocations), this object will be modified accordingly."

OBJECT docsIfUpChannelWidth

WRITE-SYNTAX Integer32 (200000..6400000)

MIN-ACCESS read-only

DESCRIPTION

"Read-create in cable modem termination systems,  
read-only in cable modems. The above value is appropriate for cable plants running under NTSC (National Television Standards Committee) standards. If DOCSIS is extended to work with other standards (e.g., European standards), this object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize  
MIN-ACCESS read-only  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaActiveCodes  
MIN-ACCESS  
read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems.  
The number of active codes when SCDMA is in use MUST range  
from 64 to 128 and MUST be a non-Prime value.  
Providing this range allows for the following features



and capabilities:

- 1) Power management in S-CDMA spreader-on frames (with a 3 dB spread).
  
- 2) Avoidance of code 0.
- 3) Flexible mini-slot sizes with and without the use of code 0."

OBJECT docsIfUpChannelScdmaCodesPerSlot  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaFrameSize  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelScdmaHoppingSeed  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelCloneFrom  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelUpdate  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfUpChannelStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in Cable Modem Termination Systems;  
read-only in Cable Modems.  
Entries associated to physical interfaces only support  
the read-only value 'active'."

OBJECT docsIfUpChannelPreEqEnable  
MIN-ACCESS read-only  
DESCRIPTION  
"Read-create in cable modem termination systems;  
read-only in cable modems."

OBJECT docsIfQosProfPriority  
MIN-ACCESS read-only  
  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth  
MIN-ACCESS read-only  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth  
MIN-ACCESS read-only  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth  
MIN-ACCESS read-only  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy  
MIN-ACCESS read-only  
DESCRIPTION  
"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfStatus  
MIN-ACCESS read-only  
DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfQosProfMaxTransmitBurst

MIN-ACCESS read-only

DESCRIPTION

"This object is always read-only in cable modems.  
It is compliant to implement this object as read-only  
in cable modem termination systems."

OBJECT docsIfCmRangingTimeout

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType

SYNTAX INTEGER {

unknown(0),

tdma(1),

atdma(2),

scdma(3)

}

DESCRIPTION

"CM does not use both modulation burst profiles of a  
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is  
not supported."

OBJECT docsIfCmtsServiceAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions

```
WRITE-SYNTAX BITS {  
    createByManagement(0),  
    updateByManagement(1)  
}
```

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType

```
WRITE-SYNTAX INTEGER {  
    qpsk(2),  
    qam16(3),  
    qam64(6)  
}
```

DESCRIPTION

"A management station MAY only set 64QAM, 16QAM, or QPSK modulation for Time or Code division Multiple Access, but others might be possible based on device configuration."

OBJECT docsIfCmtsCmStatusModulationType

```
SYNTAX INTEGER {  
    unknown(0),  
    tdma(1),  
    atdma(2),  
    scdma(3)  
}
```

DESCRIPTION

"CM does not use both modulation burst profiles of a 'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma' is not supported."

::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP

OBJECTS {

docsIfDownChannelId,  
docsIfDownChannelFrequency,  
docsIfDownChannelWidth,  
docsIfDownChannelModulation,  
docsIfDownChannelInterleave,  
docsIfDownChannelPower,  
docsIfUpChannelId,  
docsIfUpChannelFrequency,  
docsIfUpChannelWidth,  
docsIfUpChannelModulationProfile,  
docsIfUpChannelSlotSize,  
docsIfUpChannelTxTimingOffset,  
docsIfUpChannelRangingBackoffStart,  
docsIfUpChannelRangingBackoffEnd,  
docsIfUpChannelTxBackoffStart,  
docsIfUpChannelTxBackoffEnd,  
docsIfQosProfPriority,

docsIfQosProfMaxUpBandwidth,  
docsIfQosProfGuarUpBandwidth,  
docsIfQosProfMaxDownBandwidth,  
docsIfQosProfMaxTxBurst,  
docsIfQosProfBaselinePrivacy,  
docsIfQosProfStatus,  
docsIfSigQIncludesContention,  
docsIfSigQUnerroreds,  
docsIfSigQCorrecteds,  
docsIfSigQUncorrectables,  
docsIfSigQSignalNoise,  
docsIfSigQMicroreflections,  
docsIfSigQEqualizationData

}

STATUS deprecated

DESCRIPTION

"Group of objects implemented in both cable modems and  
cable modem termination systems."

::= { docsIfGroups 1 }

docsIfCmGroup OBJECT-GROUP

OBJECTS {

docsIfCmCmtsAddress,  
docsIfCmCapabilities,  
docsIfCmRangingTimeout,  
docsIfCmStatusValue,  
docsIfCmStatusCode,  
docsIfCmStatusTxPower,

```

docsIfCmStatusResets,
docsIfCmStatusLostSyncs,
docsIfCmStatusInvalidMaps,
docsIfCmStatusInvalidUcds,
docsIfCmStatusInvalidRangingResponses,
docsIfCmStatusInvalidRegistrationResponses,
docsIfCmStatusT1Timeouts,
docsIfCmStatusT2Timeouts,
docsIfCmStatusT3Timeouts,
docsIfCmStatusT4Timeouts,
docsIfCmStatusRangingAborted,
docsIfCmServiceQosProfile,
docsIfCmServiceTxSlotsImmed,
docsIfCmServiceTxSlotsDed,
docsIfCmServiceTxRetries,
docsIfCmServiceTxExceeds,
docsIfCmServiceRqRetries,
docsIfCmServiceRqExceeds
}
STATUS deprecated

```

#### DESCRIPTION

"Group of objects implemented in cable modems."

```
::= { docsIfGroups 2 }
```

#### docsIfCmtsGroup OBJECT-GROUP

```

OBJECTS {
docsIfCmtsCapabilities,
docsIfCmtsSyncInterval,
docsIfCmtsUcdInterval,
docsIfCmtsMaxServiceIds,
docsIfCmtsInvitedRangingAttempts,
docsIfCmtsInsertInterval,
docsIfCmtsStatusInvalidRangeReqs,
docsIfCmtsStatusRangingAborted,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,
docsIfCmtsCmStatusIpAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,

```

```
docsIfCmtsCmStatusValue,  
docsIfCmtsCmStatusUnerrored,  
docsIfCmtsCmStatusCorrected,  
docsIfCmtsCmStatusUncorrectables,  
docsIfCmtsCmStatusSignalNoise,  
docsIfCmtsCmStatusMicroreflections,  
docsIfCmtsServiceCmStatusIndex,  
docsIfCmtsServiceAdminStatus,  
docsIfCmtsServiceQosProfile,  
docsIfCmtsServiceCreateTime,  
docsIfCmtsServiceInOctets,  
docsIfCmtsServiceInPackets,  
docsIfCmtsModType,  
docsIfCmtsModControl,  
docsIfCmtsModPreambleLen,  
docsIfCmtsModDifferentialEncoding,  
docsIfCmtsModFECErrorCorrection,  
docsIfCmtsModFECCodewordLength,  
docsIfCmtsModScramblerSeed,  
docsIfCmtsModMaxBurstSize,  
docsIfCmtsModGuardTimeSize,  
docsIfCmtsModLastCodewordShortened,  
docsIfCmtsModScrambler,
```

```
docsIfCmtsQosProfilePermissions,  
docsIfCmtsCmPtr  
}  
STATUS deprecated  
DESCRIPTION  
"Group of objects  
implemented in Cable Modem Termination  
Systems."  
::= { docsIfGroups 3 }
```

```
-- obsolete group  
-- RFC 2670 already had a obsolete group, even though RFC2670  
-- was the first version of this MIB Module.
```

```
docsIfObsoleteGroup OBJECT-GROUP  
OBJECTS {  
docsIfCmRangingRespTimeout,  
docsIfCmtsInsertionInterval  
}  
STATUS obsolete  
DESCRIPTION  
"Group of objects obsoleted."
```

::= { docsIfGroups 4 }

docsIfBasicGroupV2 OBJECT-GROUP

OBJECTS {

docsIfDownChannelId,  
docsIfDownChannelFrequency,  
docsIfDownChannelWidth,  
docsIfDownChannelModulation,  
docsIfDownChannelInterleave,  
docsIfDownChannelPower,  
docsIfDownChannelAnnex,  
docsIfUpChannelId,  
docsIfUpChannelFrequency,  
docsIfUpChannelWidth,  
docsIfUpChannelModulationProfile,  
docsIfUpChannelSlotSize,  
docsIfUpChannelTxTimingOffset,  
docsIfUpChannelRangingBackoffStart,  
docsIfUpChannelRangingBackoffEnd,  
docsIfUpChannelTxBackoffStart,  
docsIfUpChannelTxBackoffEnd,  
docsIfUpChannelScdmaActiveCodes,  
docsIfUpChannelScdmaCodesPerSlot,  
docsIfUpChannelScdmaFrameSize,  
docsIfUpChannelScdmaHoppingSeed,  
docsIfUpChannelType,  
docsIfUpChannelCloneFrom,

docsIfUpChannelUpdate,  
docsIfUpChannelStatus,  
docsIfUpChannelPreEqEnable,  
docsIfQosProfPriority,  
docsIfQosProfMaxUpBandwidth,  
docsIfQosProfGuarUpBandwidth,  
docsIfQosProfMaxDownBandwidth,  
docsIfQosProfBaselinePrivacy,  
docsIfQosProfStatus,  
docsIfQosProfMaxTransmitBurst,  
docsIfSigQIncludesContention,  
docsIfSigQUnerrored,  
docsIfSigQCorrected,  
docsIfSigQUncorrectable,  
docsIfSigQSignalNoise,  
docsIfSigQMicroreflections,  
docsIfSigQExtUnerrored,  
docsIfSigQExtCorrected,



```
docsIfSigQExtUncorrectables,  
docsIfDocsisBaseCapability  
}  
STATUS    current  
DESCRIPTION  
"Group of objects implemented in both cable modems and  
cable modem termination systems."  
::= { docsIfGroups 5 }
```

#### docsIfCmGroupV2 OBJECT-GROUP

```
OBJECTS {  
docsIfCmCmtsAddress,  
docsIfCmCapabilities,  
docsIfCmRangingTimeout,  
docsIfCmStatusValue,  
docsIfCmStatusCode,  
docsIfCmStatusTxPower,  
docsIfCmStatusResets,  
docsIfCmStatusLostSyncs,  
docsIfCmStatusInvalidMaps,  
docsIfCmStatusInvalidUcdfs,  
docsIfCmStatusInvalidRangingResponses,  
docsIfCmStatusInvalidRegistrationResponses,  
docsIfCmStatusT1Timeouts,  
docsIfCmStatusT2Timeouts,  
docsIfCmStatusT3Timeouts,  
docsIfCmStatusT4Timeouts,  
docsIfCmStatusRangingAborted,  
docsIfCmStatusDocsisOperMode,  
docsIfCmStatusModulationType,  
  
docsIfCmStatusEqualizationData,  
docsIfCmStatusUCCs,  
docsIfCmStatusUCCFails,  
docsIfCmServiceQosProfile,  
docsIfCmServiceTxSlotsImmed,  
docsIfCmServiceTxSlotsDed,  
docsIfCmServiceTxRetries,  
docsIfCmServiceTxExceededs,  
docsIfCmServiceRqRetries,  
docsIfCmServiceRqExceededs,  
docsIfCmServiceExtTxSlotsImmed,  
docsIfCmServiceExtTxSlotsDed,  
docsIfSigQEqualizationData  
}  
STATUS    current
```

DESCRIPTION

"Group of objects implemented in cable modems."

::= { docsIfGroups 6 }

docsIfCmtsGroupV2 OBJECT-GROUP

OBJECTS {

docsIfCmtsCapabilities,  
docsIfCmtsSyncInterval,  
docsIfCmtsUcdInterval,  
docsIfCmtsMaxServiceIds,  
docsIfCmtsInvitedRangingAttempts,  
docsIfCmtsInsertInterval,  
docsIfCmtsMacStorageType,  
docsIfCmtsStatusInvalidRangeReqs,  
docsIfCmtsStatusRangingAborted,  
docsIfCmtsStatusInvalidRegReqs,  
docsIfCmtsStatusFailedRegReqs,  
docsIfCmtsStatusInvalidDataReqs,  
docsIfCmtsStatusT5Timeouts,  
docsIfCmtsCmStatusMacAddress,  
docsIfCmtsCmStatusDownChannelIfIndex,  
docsIfCmtsCmStatusUpChannelIfIndex,  
docsIfCmtsCmStatusRxPower,  
docsIfCmtsCmStatusTimingOffset,  
docsIfCmtsCmStatusEqualizationData,  
docsIfCmtsCmStatusValue,  
docsIfCmtsCmStatusUnerrored,  
docsIfCmtsCmStatusCorrected,  
docsIfCmtsCmStatusUncorrectable,  
docsIfCmtsCmStatusSignalNoise,  
docsIfCmtsCmStatusMicroreflections,  
docsIfCmtsCmStatusExtUnerrored,  
docsIfCmtsCmStatusExtCorrected,  
  
docsIfCmtsCmStatusExtUncorrectable,  
docsIfCmtsCmStatusDocsisRegMode,  
docsIfCmtsCmStatusModulationType,  
docsIfCmtsCmStatusInetAddressType,  
docsIfCmtsCmStatusInetAddress,  
docsIfCmtsCmStatusValueLastUpdate,  
docsIfCmtsCmStatusHighResolutionTimingOffset,  
docsIfCmtsServiceAdminStatus,  
docsIfCmtsServiceQosProfile,  
docsIfCmtsServiceCreateTime,  
docsIfCmtsServiceInOctets,  
docsIfCmtsServiceInPackets,

docsIfCmtsServiceNewCmStatusIndex,  
docsIfCmtsModType,  
docsIfCmtsModControl,  
docsIfCmtsModPreambleLen,  
docsIfCmtsModDifferentialEncoding,  
docsIfCmtsModFECErrorCorrection,  
docsIfCmtsModFECCodewordLength,  
docsIfCmtsModScramblerSeed,  
docsIfCmtsModMaxBurstSize,  
docsIfCmtsModGuardTimeSize,  
docsIfCmtsModLastCodewordShortened,  
docsIfCmtsModScrambler,  
docsIfCmtsModByteInterleaverDepth,  
docsIfCmtsModByteInterleaverBlockSize,  
docsIfCmtsModPreambleType,  
docsIfCmtsModTcmErrorCorrectionOn,  
docsIfCmtsModScdmaInterleaverStepSize,  
docsIfCmtsModScdmaSpreaderEnable,  
docsIfCmtsModScdmaSubframeCodes,  
docsIfCmtsModChannelType,

docsIfCmtsModStorageType,  
docsIfCmtsQosProfilePermissions,  
docsIfCmtsCmPtr,  
docsIfCmtsChannelUtilizationInterval,  
docsIfCmtsChannelUtUtilization,  
docsIfCmtsDownChnlCtrId,  
docsIfCmtsDownChnlCtrTotalBytes,  
docsIfCmtsDownChnlCtrUsedBytes,  
docsIfCmtsDownChnlCtrExtTotalBytes,  
docsIfCmtsDownChnlCtrExtUsedBytes,  
docsIfCmtsUpChnlCtrId,  
docsIfCmtsUpChnlCtrTotalMslots,  
docsIfCmtsUpChnlCtrUcastGrantedMslots,  
docsIfCmtsUpChnlCtrTotalCntnMslots,  
docsIfCmtsUpChnlCtrUsedCntnMslots,  
docsIfCmtsUpChnlCtrExtTotalMslots,

docsIfCmtsUpChnlCtrExtUcastGrantedMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnMslots,  
docsIfCmtsUpChnlCtrCollCntnMslots,  
docsIfCmtsUpChnlCtrTotalCntnReqMslots,  
docsIfCmtsUpChnlCtrUsedCntnReqMslots,  
docsIfCmtsUpChnlCtrCollCntnReqMslots,  
docsIfCmtsUpChnlCtrTotalCntnReqDataMslots,

```
docsIfCmtsUpChnlCtrUsedCntnReqDataMslots,  
docsIfCmtsUpChnlCtrCollCntnReqDataMslots,  
docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtCollCntnMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnReqMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnReqMslots,  
docsIfCmtsUpChnlCtrExtCollCntnReqMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots,  
docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots,  
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots,  
docsIfDownChannelStorageType,  
docsIfQosProfStorageType
```

```
}
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Group of objects implemented in Cable Modem
```

```
Termination
```

```
Systems."
```

```
::= { docsIfGroups 7 }
```

```
END
```

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB
```

No license file was found, but licenses were detected in source scan.

```
SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
MODULE-IDENTITY, OBJECT-TYPE,
```

```
-- OBJECT-IDENTITY,
```

```
experimental, Integer32
```

```
FROM SNMPv2-SMI
```

```
TEXTUAL-CONVENTION
```

```
FROM SNMPv2-TC
```

```
MODULE-COMPLIANCE, OBJECT-GROUP
```

```
FROM SNMPv2-CONF
```

```
usmUserEntry
```

```
FROM SNMP-USER-BASED-SM-MIB
```

```
SnmAdminString
```

```
FROM SNMP-FRAMEWORK-MIB;
```

snmpUsmDHObjectsMIB MODULE-IDENTITY

LAST-UPDATED "200003060000Z" -- 6 March 2000, Midnight

ORGANIZATION "Excite@Home"

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#### DESCRIPTION

"The management information definitions for providing forward secrecy for key changes for the usmUserTable, and for providing a method

for 'kickstarting' access to the agent via a Diffie-Helman key agreement."

REVISION "200003060000Z"

#### DESCRIPTION

"Initial version published as RFC 2786."

::= { experimental 101 } -- IANA DHKEY-CHANGE 101

-- Administrative assignments

usmDHKeyObjects OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 1 }

usmDHKeyConformance OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 2 }

-- Textual conventions

DHKeyChange ::= TEXTUAL-CONVENTION

STATUS current

#### DESCRIPTION

"Upon initialization, or upon creation of a row containing an object of this type, and after any successful SET of this value, a GET of this value returns 'y' where  $y = g^{xa} \text{ MOD } p$ , and where g is the base from usmDHPParameters, p is the prime from usmDHPParameters, and xa is a new random integer selected by the agent in the interval  $2^{(l-1)} \leq xa < 2^l < p-1$ . 'l' is the optional privateValueLength from usmDHPParameters in bits. If 'l' is omitted,

then xa (and xr below) is selected in the interval 0

$\leq xa < p-1$ . y is expressed as an OCTET STRING 'PV' of length 'k' which satisfies

k

$$y = \sum_{i=1}^{8(k-i)} PV^i$$

where  $PV_1, \dots, PV_k$  are the octets of PV from first to last, and  
 where  $PV_1 < 0$ .

A successful SET consists of the value 'y' expressed as an OCTET STRING as above concatenated with the value 'z' (expressed as an OCTET STRING in the same manner as y) where  $z = g^{xr} \text{ MOD } p$ , where g, p and l are as above, and where xr is a new random integer selected by the manager in the interval  $2^{(l-1)} \leq xr < 2^l < p-1$ . A SET to an object of this type will fail with the error wrongValue if the current 'y' does not match the 'y' portion of the value of the varbind for the object. (E.g. GET yout, SET concat(yin, z), yout  $\langle \rangle$  yin).

Note that the private values xa and xr are never transmitted from manager to device or vice versa, only the values y and z.

Obviously, these values must be retained until a successful SET on the associated object.

The shared secret 'sk' is calculated at the agent as  $sk = z^{xa} \text{ MOD } p$ , and at the manager as  $sk = y^{xr} \text{ MOD } p$ .

Each object definition of this type MUST describe how to map from the shared secret 'sk' to the operational key value used by the protocols and operations related to the object. In general, if n bits of key are required, the author suggests using the n right-most bits of the shared secret as the operational key value."

#### REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3;  
 RSA Laboratories, November 1993"

SYNTAX OCTET STRING

-- Diffie Hellman public values

usmDHPublicObjects OBJECT IDENTIFIER ::= { usmDHKeyObjects 1 }

usmDHParameters OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The public Diffie-Hellman parameters for doing a Diffie-Hellman key agreement for this device. This is encoded as an ASN.1 DHPParameter per PKCS #3, section 9. E.g.

```
DHParameter ::= SEQUENCE {
    prime    INTEGER, -- p
    base     INTEGER, -- g
    privateValueLength INTEGER OPTIONAL }
```

Implementors are encouraged to use either the values from Oakley Group 1 or the values of from Oakley Group 2 as specified in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the default for this object. Other values may be used, but the security properties of those values MUST be well understood and MUST meet the requirements of PKCS #3 for the selection of Diffie-Hellman primes.

In addition, any time usmDHParameters changes, all values of type DHKeyChange will change and new random numbers MUST be generated by the agent for each DHKeyChange object."

#### REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS #3,  
RSA Laboratories,  
November 1993  
-- The Internet Key Exchange, RFC 2409, November 1998,  
Sec 6.1, 6.2"  
::= { usmDHPublicObjects 1 }

#### usmDHUserKeyTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This table augments and extends the usmUserTable and provides 4 objects which exactly mirror the objects in that table with the textual convention of 'KeyChange'. This extension allows key changes to be done in a manner where the knowledge of the current secret plus knowledge of the key change data exchanges (e.g. via wiretapping) will not reveal the new key."

::= { usmDHPublicObjects 2 }

#### usmDHUserKeyEntry OBJECT-TYPE

SYNTAX UsmDHUserKeyEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"A row of DHKeyChange objects which augment or replace the functionality of the KeyChange objects in the base table row."

AUGMENTS { usmUserEntry }

::= { usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {  
    usmDHUserAuthKeyChange    DHKeyChange,  
    usmDHUserOwnAuthKeyChange  DHKeyChange,  
    usmDHUserPrivKeyChange    DHKeyChange,  
    usmDHUserOwnPrivKeyChange  DHKeyChange  
}

usmDHUserAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agents own Authentication Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserAuthProtocol, are installed as the operational authentication key for this row after a successful SET."

::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change any given user's Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by



usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."

::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE

SYNTAX DHKeyChange

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object used to change the agent's own Privacy Key using a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the number of bits required for the protocol defined by usmUserPrivProtocol, are installed as the operational privacy key for this row after a successful SET."

::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

usmDHKickstartTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsmDHKickstartEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of mappings between zero or more Diffie-Helman key agreement values and entries in the usmUserTable. Entries in this table are created by providing the associated device with a Diffie-Helman public value and a usmUserName/usmUserSecurityName pair during initialization. How these values are provided is outside the scope of this MIB, but could be provided manually, or through a configuration file. Valid public value/name pairs result

in the creation of a row in this table as well as the creation of an associated row (with keys derived as indicated) in the usmUserTable. The actual access the related usmSecurityName has is dependent on the entries in the VACM tables. In general, an implementor will specify one or more standard security names and will provide entries in the VACM tables granting various levels of access to those names. The actual content of the VACM table is beyond the scope of this MIB.

Note: This table is expected to be readable without authentication using the usmUserSecurityName 'dhKickstart'. See the conformance statements for details."

::= { usmDHKickstartGroup 1 }

usmDHKickstartEntry OBJECT-TYPE

SYNTAX UsmDhKickstartEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the usmDhKickstartTable. The agent SHOULD either delete this entry or mark it as inactive upon a successful SET of any of the KeyChange-typed objects in the usmUserEntry or upon a successful SET of any of the DhKeyChange-typed objects in the usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of usmUserTable or row of ushDhKeyChangeTable) equals this entry's usmDhKickstartSecurityName. In otherwords, once you've changed one or more of the keys for a row in usmUserTable with a particular security name, the row in this table with that same security name is no longer useful or meaningful."

INDEX { usmDhKickstartIndex }

::= { usmDhKickstartTable 1 }

```
UsmDhKickstartEntry ::= SEQUENCE {
    usmDhKickstartIndex Integer32,
    usmDhKickstartMyPublic OCTET STRING,
    usmDhKickstartMgrPublic OCTET STRING,
    usmDhKickstartSecurityName SnmpAdminString
}
```

usmDhKickstartIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index value for  
this row."

::= { usmDhKickstartEntry 1 }

usmDhKickstartMyPublic OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The agent's Diffie-Hellman public value for this row. At initialization, the agent generates a random number and derives its public value from that number. This public value is published here. This public value 'y' equals  $g^r \text{ MOD } p$  where  $g$  is the from the set of Diffie-Hellman parameters,  $p$  is the prime from those parameters, and  $r$  is a random integer selected by the agent in the interval  $2^{l-1} \leq r < p-1 < 2^l$ . If  $l$  is unspecified, then  $r$  is a random integer selected in the interval  $0 \leq r < p-1$

The public value is expressed as an OCTET STRING 'PV' of length 'k' which satisfies

$$y = \sum_{i=1}^k 2^{8(k-i)} PV^i$$

where PV1,...,PVk are the octets of PV from first to last, and where PV1 != 0.

The following DH parameters (Oakley group #2, RFC 2409, sec 6.1, 6.2) are used for this object:

```
g = 2
p = FFFFFFFF FFFFFFFF C90FDAA2 2168C234 C4C6628B 80DC1CD1
  29024E08 8A67CC74 020BBEA6 3B139B22 514A0879 8E3404DD
  EF9519B3 CD3A431B 302B0A6D F25F1437 4FE1356D 6D51C245
  E485B576 625E7EC6 F44C42E9 A637ED6B 0BFF5CB6 F406B7ED
  EE386BFB 5A899FA5 AE9F2411 7C4B1FE6 49286651 ECE65381
  FFFFFFFF FFFFFFFF
```

l=1024

"

#### REFERENCE

-- Diffie-Hellman Key-Agreement Standard, PKCS#3v1.4;  
RSA Laboratories, November 1993  
-- The Internet Key Exchange, RFC2409;  
Harkins, D., Carrel, D.; November 1998"

::= { usmDHKickstartEntry 2 }

usmDHKickstartMgrPublic OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The manager's Diffie-Hellman public value for this row. Note that this value is not set via the SNMP agent, but may be set via some out of band method, such as the device's configuration file.

The manager calculates this value in the same manner and using the same parameter set as the agent does. E.g. it selects a random number 'r', calculates  $y = g^r \text{ mod } p$  and provides 'y' as the public number expressed as an OCTET STRING. See usmDHKickstartMyPublic for details.

When this object is set with a valid value during initialization, a row is created in the usmUserTable with the following values:

```
usmUserEngineID      localEngineID
usmUserName          [value of usmDhKickstartSecurityName]
usmUserSecurityName  [value of usmDhKickstartSecurityName]
usmUserCloneFrom     ZeroDotZero
usmUserAuthProtocol  usmHMACMD5AuthProtocol
usmUserAuthKeyChange -- derived from set value
usmUserOwnAuthKeyChange -- derived from set value
usmUserPrivProtocol  usmDESPrivProtocol
usmUserPrivKeyChange -- derived from set value
usmUserOwnPrivKeyChange -- derived from set value
usmUserPublic        "
usmUserStorageType   permanent
usmUserStatus        active
```

A shared secret 'sk' is calculated at the agent as  $sk = mgrPublic^r \text{ mod } p$  where r is the agents random number and p is the DH prime from the common parameters. The underlying privacy key for this row is derived from sk by applying the key derivation function PBKDF2 defined in PKCS#5v2.0 with a salt of 0xd1310ba6, and iterationCount of 500, a keyLength of 16 (for usmDESPrivProtocol), and a prf (pseudo random function) of 'id-hmacWithSHA1'. The underlying authentication key for this row is derived from sk by applying the key derivation function PBKDF2 with a salt of 0x98dfb5ac, an iteration count of 500, a keyLength of 16 (for usmHMAC5AuthProtocol), and a prf of 'id-hmacWithSHA1'. Note: The salts are the first two words in the ks0 [key schedule 0] of the BLOWFISH cipher from 'Applied Cryptography' by Bruce Schneier - they could be any relatively random string of bits.

The manager can use its knowledge of its own random number and the agent's public value to kickstart its access to the agent in a secure manner. Note that the security of this approach is directly related to the strength of the authorization security of the out of band provisioning of the managers public value (e.g. the configuration file), but is not dependent at all on the strength of the confidentiality of the out of band provisioning data."

#### REFERENCE

```
-- Password-Based Cryptography Standard, PKCS#5v2.0;
   RSA Laboratories, March 1999
-- Applied Cryptography, 2nd Ed.; B. Schneier,
   Counterpane Systems; John Wiley & Sons, 1996"
::= { usmDhKickstartEntry 3 }
```

usmDHKickstartSecurityName OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The usmUserName and usmUserSecurityName in the usmUserTable associated with this row. This is provided in the same manner and at the same time as the usmDHKickstartMgrPublic value - e.g. possibly manually, or via the device's configuration file."  
 ::= { usmDHKickstartEntry 4 }

-- Conformance Information

usmDHKeyMIBCompliances OBJECT IDENTIFIER ::= { usmDHKeyConformance 1 }

usmDHKeyMIBGroups OBJECT IDENTIFIER ::= { usmDHKeyConformance 2 }

-- Compliance statements

usmDHKeyMIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for this module."

MODULE

GROUP usmDHKeyMIBBasicGroup

DESCRIPTION

"This group MAY be implemented by any agent which implements the usmUserTable and which wishes to provide the ability to change user and agent authentication and privacy keys via Diffie-Hellman key exchanges."

GROUP usmDHKeyParamGroup

DESCRIPTION

"This group MUST be implemented by any agent which implements a MIB containing the DHKeyChange Textual Convention defined in this module."

GROUP usmDHKeyKickstartGroup

DESCRIPTION

"This group MAY be implemented by any agent which implements the usmUserTable and which wishes the ability to populate the USM table based on out-of-band provided DH ignition values.

Any agent implementing this group is expected to provide preinstalled entries in the vacm tables as follows:

In the usmUserTable: This entry allows access to the system and dhKickstart groups

```

usmUserEngineID    localEngineID
usmUserName        'dhKickstart'
usmUserSecurityName 'dhKickstart'
usmUserCloneFrom   ZeroDotZero
usmUserAuthProtocol none
usmUserAuthKeyChange "
usmUserOwnAuthKeyChange "
usmUserPrivProtocol
none
usmUserPrivKeyChange "
usmUserOwnPrivKeyChange "
usmUserPublic      "
usmUserStorageType permanent
usmUserStatus      active

```

In the vacmSecurityToGroupTable: This maps the initial user into the accessible objects.

```

vacmSecurityModel    3 (USM)
vacmSecurityName     'dhKickstart'
vacmGroupName        'dhKickstart'
vacmSecurityToGroupStorageType permanent
vacmSecurityToGroupStatus active

```

In the vacmAccessTable: Group name to view name translation.

```

vacmGroupName        'dhKickstart'
vacmAccessContextPrefix "
vacmAccessSecurityModel 3 (USM)
vacmAccessSecurityLevel noAuthNoPriv
vacmAccessContextMatch exact
vacmAccessReadViewName 'dhKickRestricted'
vacmAccessWriteViewName "
vacmAccessNotifyViewName
'dhKickRestricted'
vacmAccessStorageType permanent
vacmAccessStatus     active

```

In the vacmViewTreeFamilyTable: Two entries to allow the initial entry to access the system and kickstart groups.

```

vacmViewTreeFamilyViewName 'dhKickRestricted'
vacmViewTreeFamilySubtree  1.3.6.1.2.1.1 (system)
vacmViewTreeFamilyMask    "
vacmViewTreeFamilyType    1
vacmViewTreeFamilyStorageType permanent
vacmViewTreeFamilyStatus  active

```

```
vacmViewTreeFamilyViewName    'dhKickRestricted'
vacmViewTreeFamilySubtree      (usmDHKickstartTable OID)
vacmViewTreeFamilyMask         "
vacmViewTreeFamilyType         1
vacmViewTreeFamilyStorageType  permanent
vacmViewTreeFamilyStatus       active
"
```

```
OBJECT usmDHParameters
```

```
MIN-ACCESS    read-only
```

```
DESCRIPTION
```

```
"It
```

```
is compliant to implement this object as read-only for
any device."
```

```
::= { usmDHKeyMIBCompliances 1 }
```

```
-- Units of Compliance
```

```
usmDHKeyMIBBasicGroup OBJECT-GROUP
```

```
OBJECTS {
    usmDHUserAuthKeyChange,
    usmDHUserOwnAuthKeyChange,
    usmDHUserPrivKeyChange,
    usmDHUserOwnPrivKeyChange
}
```

```
STATUS    current
```

```
DESCRIPTION
```

```
""
```

```
::= { usmDHKeyMIBGroups 1 }
```

```
usmDHKeyParamGroup OBJECT-GROUP
```

```
OBJECTS {
    usmDHParameters
}
```

```
STATUS    current
```

```
DESCRIPTION
```

```
"The mandatory object for all MIBs which use the DHKeyChange
textual convention."
```

```
::= { usmDHKeyMIBGroups 2 }
```

```
usmDHKeyKickstartGroup OBJECT-GROUP
```

```
OBJECTS {
    usmDHKickstartMyPublic,
    usmDHKickstartMgrPublic,
    usmDHKickstartSecurityName
}
```

STATUS current  
DESCRIPTION  
"The objects used  
for kickstarting one or more SNMPv3 USM  
associations via a configuration file or other out of band,  
non-confidential access."  
::= { usmDHKeyMIBGroups 3 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB

No license file was found, but licenses were detected in source scan.

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2  
FROM SNMPv2-SMI -- [RFC2578]  
TEXTUAL-CONVENTION  
FROM SNMPv2-TC; -- [RFC2579]

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

CONTACT-INFO

"Postal: Internet Assigned Numbers Authority  
Internet Corporation for Assigned Names  
and Numbers  
4676 Admiralty Way, Suite 330  
Marina del Rey, CA 90292-6601  
USA

Tel: +1 310-823-9358

E-Mail: iana@iana.org"

DESCRIPTION

"The MIB module defines the ITU Alarm  
textual convention for objects expected to require  
regular extension.

Copyright (C) The Internet Society (2004). The  
initial version of this MIB module  
was published

in RFC 3877. For full legal notices see the RFC



itself. Supplementary information may be available on:

<http://www.ietf.org/copyrights/ianamib.html>

REVISION "200409090000Z" -- September 09, 2004

#### DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

#### DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in X.733 are appended with X733 to ensure syntactic uniqueness. Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a first-come, first served basis and will be assigned enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

While some effort will be taken to ensure that new probable causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See <http://www.iana.org>"

#### REFERENCE

"ITU Recommendation M.3100, 'Generic Network Information Model', 1995

ITU Recommendation X.733, 'Information Technology

- Open

Systems Interconnection - System Management: Alarm Reporting Function', 1992

ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

{

-- The following probable causes were defined in M.3100

aIS (1),

callSetUpFailure (2),

degradedSignal (3),

farEndReceiverFailure (4),

framingError (5),

lossOfFrame (6),

lossOfPointer (7),

lossOfSignal (8),

payloadTypeMismatch (9),

transmissionError (10),

remoteAlarmInterface (11),

excessiveBER (12),

pathTraceMismatch (13),

unavailable (14),

signalLabelMismatch (15),

lossOfMultiFrame (16),

receiveFailure (17),

transmitFailure (18),

modulationFailure (19),

demodulationFailure (20),

broadcastChannelFailure (21),

connectionEstablishmentError (22),

invalidMessageReceived (23),

localNodeTransmissionError (24),

remoteNodeTransmissionError (25),

routingFailure (26),

--Values 27-50 are reserved for communications alarm related

--probable causes

-- The following are used with equipment alarm.

backplaneFailure (51),

dataSetProblem (52),

equipmentIdentifierDuplication (53),

externalIFDeviceProblem (54),

lineCardProblem (55),  
 multiplexerProblem (56),  
 nEIdentifierDuplication (57),  
 powerProblem (58),  
 processorProblem (59),  
 protectionPathFailure (60),  
 receiverFailure (61),  
 replaceableUnitMissing (62),  
 replaceableUnitTypeMismatch  
 (63),  
 synchronizationSourceMismatch (64),  
 terminalProblem (65),  
 timingProblem (66),  
 transmitterFailure (67),  
 trunkCardProblem (68),  
 replaceableUnitProblem (69),  
 realTimeClockFailure (70),  
 --An equipment alarm to be issued if the system detects that the  
 --real time clock has failed  
     antennaFailure (71),  
     batteryChargingFailure (72),  
     diskFailure (73),  
     frequencyHoppingFailure (74),  
     iODeviceError (75),  
     lossOfSynchronisation (76),  
     lossOfRedundancy (77),  
     powerSupplyFailure (78),  
     signalQualityEvaluationFailure (79),  
     tranceiverFailure (80),  
     protectionMechanismFailure (81),  
     protectingResourceFailure (82),  
 -- Values 83-100 are reserved for equipment alarm related probable  
 -- causes  
 -- The following are used with environmental alarm.  
     airCompressorFailure (101),  
  
     airConditioningFailure (102),  
     airDryerFailure (103),  
     batteryDischarging (104),  
     batteryFailure (105),  
     commercialPowerFailure (106),  
     coolingFanFailure (107),  
     engineFailure (108),  
     fireDetectorFailure (109),  
     fuseFailure (110),  
     generatorFailure (111),  
     lowBatteryThreshold (112),

pumpFailure (113),  
 rectifierFailure (114),  
 rectifierHighVoltage (115),  
 rectifierLowFVvoltage (116),  
 ventilationsSystemFailure (117),  
 enclosureDoorOpen (118),  
 explosiveGas (119),  
 fire (120),  
 flood (121),  
 highHumidity (122),  
 highTemperature (123),  
 highWind (124),  
 iceBuildUp (125),  
 intrusionDetection (126),  
 lowFuel  
 (127),  
 lowHumidity (128),  
 lowCablePressure (129),  
 lowTemperature (130),  
 lowWater (131),  
 smoke (132),  
 toxicGas (133),  
 coolingSystemFailure (134),  
 externalEquipmentFailure (135),  
 externalPointFailure (136),  
 -- Values 137-150 are reserved for environmental alarm related  
 -- probable causes  
 -- The following are used with Processing error alarm.  
 storageCapacityProblem (151),  
 memoryMismatch (152),  
 corruptData (153),  
 outOfCPUCycles (154),  
 sfwrEnvironmentProblem (155),  
 sfwrDownloadFailure (156),  
 lossOfRealTime (157),  
 --A processing error alarm to be issued after the system has  
 --reinitialised. This will indicate  
 --to the management systems that the view they have of the managed  
  
 --system may no longer  
 --be valid. Usage example: The managed  
 --system issues this alarm  
 after a reinitialization with severity  
 --warning to inform the  
 --management system about the event. No clearing notification will  
 --be sent.  
 applicationSubsystemFailure (158),

configurationOrCustomisationError (159),  
 databaseInconsistency (160),  
 fileError (161),  
 outOfMemory (162),  
 softwareError (163),  
 timeoutExpired (164),  
 underlyingResourceUnavailable (165),  
 versionMismatch (166),  
 --Values 168-200 are reserved for processing error alarm related  
 -- probable causes.  
 bandwidthReduced (201),  
 congestion (202),  
 excessiveErrorRate (203),  
 excessiveResponseTime (204),  
 excessiveRetransmissionRate (205),  
 reducedLoggingCapability (206),  
 systemResourcesOverload (207 ),  
 -- The following were defined X.733  
 adapterError (500),  
 applicationSubsystemFailure  
 (501),  
 bandwidthReducedX733 (502),  
 callEstablishmentError (503),  
 communicationsProtocolError (504),  
 communicationsSubsystemFailure (505),  
 configurationOrCustomizationError (506),  
 congestionX733 (507),  
 corruptData (508),  
 cpuCyclesLimitExceeded (509),  
 dataSetOrModemError (510),  
 degradedSignalX733 (511),  
 dteDceInterfaceError (512),  
 enclosureDoorOpenX733 (513),  
 equipmentMalfunction (514),  
 excessiveVibration (515),  
 fileErrorX733 (516),  
 fireDetected (517),  
 framingErrorX733 (518),  
 heatingVentCoolingSystemProblem (519),  
 humidityUnacceptable (520),  
 inputOutputDeviceError (521),  
 inputDeviceError (522),  
  
 lanError (523),  
 leakDetected (524),  
 localNodeTransmissionErrorX733 (525),

lossOfFrameX733 (526),  
lossOfSignalX733 (527),  
materialSupplyExhausted (528),  
multiplexerProblemX733 (529),  
outOfMemoryX733 (530),  
outputDeviceError (531),  
performanceDegraded (532),  
powerProblems (533),  
pressureUnacceptable (534),  
processorProblems (535),  
pumpFailureX733 (536),  
queueSizeExceeded (537),  
receiveFailureX733 (538),  
receiverFailureX733 (539),  
remoteNodeTransmissionErrorX733 (540),  
resourceAtOrNearingCapacity (541),  
responseTimeExcessive (542),  
retransmissionRateExcessive (543),  
softwareErrorX733 (544),  
softwareProgramAbnormallyTerminated (545),  
softwareProgramError (546),  
storageCapacityProblemX733 (547),  
temperatureUnacceptable (548),  
thresholdCrossed (549),  
timingProblemX733  
(550),  
toxicLeakDetected (551),  
transmitFailureX733 (552),  
transmitterFailure (553),  
underlyingResourceUnavailable (554),  
versionMismatchX733 (555),  
-- The following are defined in X.736  
authenticationFailure (600),  
breachOfConfidentiality (601),  
cableTamper (602),  
delayedInformation (603),  
denialOfService (604),  
duplicateInformation (605),  
informationMissing (606),  
informationModificationDetected (607),  
informationOutOfSequence (608),  
keyExpired (609),  
nonRepudiationFailure (610),  
outOfHoursActivity (611),  
outOfService (612),  
proceduralError (613),

```
    unauthorizedAccessAttempt (614),
    unexpectedInformation (615),

    other (1024)
}
```

IANAItuEventType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The ITU event Type values.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations in this TC.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

See <http://www.iana.org> "

REFERENCE

"ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

```
{
  other (1),
  communicationsAlarm (2),
  qualityOfServiceAlarm (3),
  processingErrorAlarm (4),
  equipmentAlarm (5),
  environmentalAlarm (6),
  integrityViolation (7),
  operationalViolation (8),
  physicalViolation (9),
  securityServiceOrMechanismViolation
(10),
  timeDomainViolation (11)
}
```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB

No license file was found, but licenses were detected in source scan.

Modem-MIB DEFINITIONS ::= BEGIN

## IMPORTS

```
MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,  
Counter32, Integer32 FROM SNMPv2-SMI  
DisplayString FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF  
mib-2 FROM RFC1213-MIB;
```

## mdmMIB MODULE-IDENTITY

```
LAST-UPDATED "940612000Z"  
ORGANIZATION "IETF Modem Management Working Group"  
CONTACT-INFO
```

```
"    Steven Waldbusser  
    Postal: Carnegie Mellon University  
           5000 Forbes Ave  
           Pittsburgh, PA, 15213  
           US
```

```
Tel: +1 412 268 6628
```

```
Fax: +1 412 268 4987
```

```
E-mail: waldbusser@cmu.edu"
```

## DESCRIPTION

```
"The MIB module for management of dial-up modems."
```

```
::= { mdmMib 1 }
```

```
mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }
```

```
mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }
```

```
-- conformance information
```

```
mdmConformance OBJECT IDENTIFIER
```

```
::= { mdmMIB 2 }
```

```
mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }
```

```
mdmGroups    OBJECT IDENTIFIER ::= { mdmConformance 2 }
```

```
-- units of conformance
```

```
mdmIDGroup  OBJECT-GROUP
```

```
OBJECTS { mdmIDManufacturerOID, mdmIDProductDetails }
```

```
STATUS current
```

## DESCRIPTION

```
"A collection of objects that identify the manufacturer and  
model information for a modem."
```



::= { mdmGroups 1 }

mdmLineInterfaceGroup OBJECT-GROUP

OBJECTS { mdmLineCarrierLossTime,  
mdmLineState, mdmLineCapabilitiesID,  
mdmLineCapabilitiesEnableRequested,  
mdmLineCapabilitiesEnableGranted }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and state of the modem's line interface."

::= { mdmGroups 2 }

mdmDTEInterfaceGroup OBJECT-GROUP

OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,  
mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

mdmDTEInactivityTimeout }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and state of the modem's DTE interface."

::= { mdmGroups 3 }

mdmCallControlGroup OBJECT-GROUP

OBJECTS { mdmCCRingsBeforeAnswer,  
mdmCCCSetupFailTimer, mdmCCResultCodeEnable,  
mdmCCEscapeAction, mdmCCCduration,  
mdmCCConnectionFailReason, mdmCCStoredDialString }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration of call control capabilities on the modem and the status of calls placed with this modem."

::= { mdmGroups 4 }

mdmErrorControlGroup OBJECT-GROUP

OBJECTS { mdmECEErrorControlUsed }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and state of error control on a modem."

::= { mdmGroups 5 }

mdmDataCompressionGroup OBJECT-GROUP

OBJECTS

{ mdmDCCompressionTypeUsed }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and state of data compression on a modem."

::= { mdmGroups 6 }

mdmSignalConvertorGroup OBJECT-GROUP

OBJECTS { mdmSCCurrentLineReceiveRate, mdmSCCurrentLineTransmitRate,  
mdmSCInitialLineReceiveRate, mdmSCInitialLineTransmitRate,  
mdmSCModulationSchemeUsed }

STATUS current

DESCRIPTION

"A collection of objects that describe the configuration and state of error control on a modem."

::= { mdmGroups 7 }

mdmStatisticsGroup OBJECT-GROUP

OBJECTS { mdmStatsRingNoAnswers,  
mdmStatsIncomingConnectionFailures,  
mdmStatsIncomingConnectionCompletions,  
mdmStatsFailedDialAttempts,  
mdmStatsOutgoingConnectionFailures,  
mdmStatsOutgoingConnectionCompletions,  
mdmStatsRetrains,  
mdmStats2400OrLessConnections, mdmStats2400To14400Connections,  
mdmStatsGreaterThan14400Connections,  
mdmStatsErrorControlledConnections,  
mdmStatsCompressedConnections,  
mdmStatsCompressionEfficiency,  
mdmStatsSentOctets, mdmStatsReceivedOctets,  
mdmStatsSentDataFrames, mdmStatsReceivedDataFrames,  
mdmStatsResentFrames, mdmStatsErrorFrames }

STATUS current

DESCRIPTION

"A collection of objects that describe the state of calls on this modem."

::= { mdmGroups 8 }

mdmNumber OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of modem rows in the modem table. This value defines the maximum value of the mdmIndex object."

::= { mdmMIBObjects 1 }

-- The modem ID table.

mdmIDTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmIDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The base table for the modems managed by this MIB. The  
mdmLineTable,

mdmDTEInterfaceTable, mdmCallControlTable, and

mdmStatsTable all augment the rows defined in this table."

::= { mdmMIBObjects 2 }

mdmIDEntry OBJECT-TYPE

SYNTAX MdmIDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One  
entry exists for each modem managed by the agent."

INDEX { mdmIndex }

::= { mdmIDTable 1 }

MdmIDEntry ::= SEQUENCE {

mdmIndex Integer32,

mdmIDManufacturerOID OBJECT IDENTIFIER,

mdmIDProductDetails DisplayString

}

mdmIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique number for each modem that ranges from 1 to  
mdmNumber. The value must remain constant at least from one  
re-initialization of the network management agent to the  
next."

::= { mdmIDEntry 1

}

mdmIDManufacturerOID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value is intended to identify the manufacturer, model,  
and version of this modem. This may be used to identify the  
existence of enterprise-specific functions and behaviours."

REFERENCE

"V.58 attribute manufacturerID subfield ManufacturerOI"  
::= { mdmIDEntry 2 }

mdmIDProductDetails OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..79))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of this device, including the manufacturer's name, modem model name, hardware revision, firmware revision, and optionally, its serial number. The exact format of this description is defined by the vendor. This description may only contain characters from the NVT ASCII character set."

REFERENCE

"V.58 attribute manufacturerID subfield productDetails"  
::= { mdmIDEntry 3 }

-- The modem Line Interface Table

mdmLineTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmLineEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem Line Table augments the modem ID table."  
::= { mdmMIBObjects 3 }

mdmLineEntry OBJECT-TYPE

SYNTAX MdmLineEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmLineTable 1 }

MdmLineEntry ::= SEQUENCE {

mdmLineCarrierLossTime Integer32,

mdmLineState INTEGER

}

mdmLineCarrierLossTime OBJECT-TYPE

SYNTAX Integer32 (1..255)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Duration in 10ths of a second the modem waits after loss of carrier before hanging up. If this value is set to `255`, the modem will not hang up upon loss of carrier. This allows the modem to distinguish between a momentary lapse in line quality and a true disconnect and can be useful to tune the tolerance of the modem to lines of poor quality."

REFERENCE "V.58 lineSignalFailDisconnectTimer"

::= { mdmLineEntry 1 }

mdmLineState OBJECT-TYPE

SYNTAX INTEGER {  
    unknown(1),  
    onHook(2),  
    offHook(3), -- and not connected  
    connected(4),  
    busiedOut(5),  
    reset(6)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows the inspection and alteration of the state of the modem. Management commands may change the state to `on-hook`, `busied-out`, or `reset` from any state. No other

alterations are permitted from the management protocol.

When this object is set to reset, the modem shall be reset and the value will change to the modem's new, implementation dependent state."

::= { mdmLineEntry 2 }

mdmLineCapabilitiesTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmLineCapabilitiesEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of protocol capabilities for this modem."

::= { mdmMIBObjects 4 }

mdmLineCapabilitiesEntry OBJECT-TYPE

SYNTAX MdmLineCapabilitiesEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A listing of the protocol(s) that this modem is capable of.

Entries in this table are created only by the agent. One entry exists for each protocol that the modem is capable of,

regardless of whether that protocol is enabled or not.

This table is useful for providing an inventory of the capabilities on a modem, and allowing the manager to enable or disable capabilities from the menu of available possibilities. Row creation is not required to enable or disable capabilities."

```
INDEX    { mdmIndex, mdmLineCapabilitiesIndex }  
::= { mdmLineCapabilitiesTable 1 }
```

```
MdmLineCapabilitiesEntry ::= SEQUENCE {  
    mdmLineCapabilitiesIndex      Integer32,  
    mdmLineCapabilitiesID         OBJECT IDENTIFIER,  
    mdmLineCapabilitiesEnableRequested  INTEGER,  
    mdmLineCapabilitiesEnableGranted   INTEGER  
}
```

mdmLineCapabilitiesIndex OBJECT-TYPE

```
SYNTAX      Integer32  
MAX-ACCESS  not-accessible  
STATUS      current  
DESCRIPTION  
    "A unique index for this capabilities entry."  
::= { mdmLineCapabilitiesEntry 1 }
```

mdmLineCapabilitiesID OBJECT-TYPE

```
SYNTAX      OBJECT IDENTIFIER  
MAX-ACCESS  read-only  
STATUS      current  
DESCRIPTION  
    "An identifier for  
this capability. Standard protocol  
capabilities will have identifiers registered in this  
document or other companion standards documents.  
Proprietary protocol capabilities will be registered by  
their respective organization. All capabilities, standard  
or vendor-specific, shall be registered in this table."  
::= { mdmLineCapabilitiesEntry 2 }
```

mdmLineCapabilitiesEnableRequested OBJECT-TYPE

```
SYNTAX      INTEGER {  
    disabled(1),  
    optional(2),  
    preferred(3)  
}  
MAX-ACCESS  read-write  
STATUS      current
```

#### DESCRIPTION

"The requested configuration of this capability. If this value is 'disabled(1)', this is a request to disable this protocol. If this value is 'preferred(3)', this is a request to enable this protocol, and to prefer it in any negotiation over other appropriate protocols

that have a

value of 'optional(2)'."

DEFVAL { preferred }

::= { mdmLineCapabilitiesEntry 3 }

mdmLineCapabilitiesEnableGranted OBJECT-TYPE

SYNTAX INTEGER {

disabled(1),

optional(2),

preferred(3)

}

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The actual configuration of this capability. The agent shall attempt to set this as close as possible to the associated mdmLineCapabilitiesEnableRequested value. The agent shall make this determination in an implementation-specific manner that may take into account the configuration of other capabilities or other considerations. The modem will choose in an implementation-specific manner between multiple mutually-exclusive capabilities that each have the same (non-disabled) value. However, the modem must prefer all capabilities with a value of 'preferred(3)' over all capabilities with a value of 'optional(2)'.

In other words, if there are one or more mutually-exclusive capabilities (e.g. V.32 and V.32bis) that are set to 'preferred', the agent must choose one in an implementation-specific manner. Otherwise, if there are one or more mutually-exclusive capabilities that are set to 'optional', the agent must choose one in an implementation-specific manner."

::= { mdmLineCapabilitiesEntry 4 }

mdmLineCapabilities OBJECT IDENTIFIER ::= { mdmMIBObjects 5 }

mdmLineCapabilitiesV21 OBJECT-IDENTITY

STATUS current

#### DESCRIPTION

"ITU V.21"

::= { mdmLineCapabilities 1 }

mdmLineCapabilitiesV22 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.22"

::= { mdmLineCapabilities 2 }

mdmLineCapabilitiesV22bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.22bis"

::= { mdmLineCapabilities 3 }

mdmLineCapabilitiesV23CC OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.23CC"

::= { mdmLineCapabilities 4 }

mdmLineCapabilitiesV23SC OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.23SC"

::= { mdmLineCapabilities 5 }

mdmLineCapabilitiesV25bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.25bis"

::= { mdmLineCapabilities 6 }

mdmLineCapabilitiesV26bis OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.26bis"

::= { mdmLineCapabilities 7 }

mdmLineCapabilitiesV26ter OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.26ter"

::= { mdmLineCapabilities 8 }

mdmLineCapabilitiesV27ter OBJECT-IDENTITY

STATUS current

DESCRIPTION

"ITU V.27ter"

::= { mdmLineCapabilities 9 }



mdmLineCapabilitiesV32 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.32"  
::= { mdmLineCapabilities 10 }

mdmLineCapabilitiesV32bis OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.32bis"  
::= { mdmLineCapabilities 11 }

mdmLineCapabilitiesV32terbo OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.32terbo"  
::= { mdmLineCapabilities 12 }

mdmLineCapabilitiesVFC OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.FC"  
::= { mdmLineCapabilities 13 }

mdmLineCapabilitiesV34 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.34"  
::= { mdmLineCapabilities 14 }

mdmLineCapabilitiesV42 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.42"  
::= { mdmLineCapabilities 15 }

mdmLineCapabilitiesV42bis OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"ITU V.42bis"  
::= { mdmLineCapabilities 16 }

mdmLineCapabilitiesMNP1 OBJECT-IDENTITY  
STATUS current  
DESCRIPTION  
"MNP1"  
::= { mdmLineCapabilities 17 }

mdmLineCapabilitiesMNP2

OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP2"

::= { mdmLineCapabilities 18 }

mdmLineCapabilitiesMNP3 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP3"

::= { mdmLineCapabilities 19 }

mdmLineCapabilitiesMNP4 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP4"

::= { mdmLineCapabilities 20 }

mdmLineCapabilitiesMNP5 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP5"

::= { mdmLineCapabilities 21 }

mdmLineCapabilitiesMNP6 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP6"

::= { mdmLineCapabilities 22 }

mdmLineCapabilitiesMNP7 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP7"

::= { mdmLineCapabilities 23 }

mdmLineCapabilitiesMNP8 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP8"

::= { mdmLineCapabilities 24 }

mdmLineCapabilitiesMNP9 OBJECT-IDENTITY

STATUS current

DESCRIPTION

"MNP9"

```

"MNP9"
::= { mdmLineCapabilities 25 }

mdmLineCapabilitiesMNP10 OBJECT-IDENTITY
STATUS current
DESCRIPTION
    "MNP10"
::= { mdmLineCapabilities 26 }

mdmLineCapabilitiesV29 OBJECT-IDENTITY
STATUS current
DESCRIPTION
    "ITU V.29"
::= { mdmLineCapabilities 27 }

mdmLineCapabilitiesV33 OBJECT-IDENTITY
STATUS current
DESCRIPTION
    "ITU V.33"
::= { mdmLineCapabilities 28 }

mdmLineCapabilitiesBell208 OBJECT-IDENTITY
STATUS current
DESCRIPTION
    "Bell 208"
::= { mdmLineCapabilities 29 }

-- DTE Interface Table

mdmDTEInterfaceTable OBJECT-TYPE
SYNTAX SEQUENCE OF MdmDTEInterfaceEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The modem DTE Interface Table augments the modem ID table."
::= { mdmMIBObjects 6 }

mdmDTEInterfaceEntry OBJECT-TYPE
SYNTAX MdmDTEInterfaceEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Entries in this table are created only by the agent. One
    entry exists for each modem managed by the agent."
AUGMENTS { mdmIDEntry }
::= { mdmDTEInterfaceTable 1 }

```

```

MdmDTEInterfaceEntry ::= SEQUENCE {
    mdmDTEActionDTROnToOff    INTEGER,
    mdmDTEActionDTROffToOn    INTEGER,
    mdmDTESyncTimingSource    INTEGER,
    mdmDTESyncAsyncMode       INTEGER,
    mdmDTEInactivityTimeout    Integer32
}

```

mdmDTEActionDTROnToOff OBJECT-TYPE

```

SYNTAX    INTEGER {
    ignore(1),
    escapeToCommandMode(2),
    disconnectCall(3),
    resetModem(4)
}

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action the modem will take when DTR drops.

If the value is set to ignore(1), the modem takes no action when DTR drops. Typically, mdmDTEActionDTROffToOn would also be set to ignore(1) if this object is set to ignore(1).

If the value is escapeToCommandMode(2), the modem remains connected and enters command mode. If the value is disconnectCall(3), the current call (if any) is terminated and the modem will not auto-answer while DTR is off. If the value is resetModem(4), the current call (if any) is terminated and the modem is reset."

DEFVAL { disconnectCall }

::= { mdmDTEInterfaceEntry 1 }

mdmDTEActionDTROffToOn OBJECT-TYPE

```

SYNTAX    INTEGER {
    ignore(1),
    enableDial(2),
    autoAnswerEnable(3),
    establishConnection(4)
}

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the action the modem will take when DTR is raised.

If the value is set to ignore(1), the modem takes no action when DTR is raised. Typically, mdmDTEActionDTROnToOff would

also be set to ignore(1) if this object is set to ignore(1).

If the value is set to enableDial(2), the modem prepares to dial an outgoing call. If the value is set to autoAnswerEnable(3), the modem will be configured to answer any incoming call. If the value is set to establishConnection(4), the modem dials an implementation specific number.

Immediately after any reset or power-on of the modem, if the DTR is high, the action specified here will be executed."

```
DEFVAL { autoAnswerEnable }  
::= { mdmDTEInterfaceEntry 2 }
```

mdmDTESyncTimingSource OBJECT-TYPE

```
SYNTAX INTEGER {  
    internal(1),  
    external(2),  
    loopback(3),  
    network(4)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The clock source for synchronous transmissions. If set to internal(1), the modem is the clock source and sends the clock signals to the DTE. If set to external(2), the transmit clock signals are provided by the DTE. If loopback(3), the modem receiver clock is used for the transmit clock. If network(4), the clock signals are supplied by the DCE interface.

If the modem is not in synchronous mode, setting this object will have no effect on the current operations of the modem."

REFERENCE "V.58 transmitClockSource"

```
DEFVAL { internal }
```

```
::= { mdmDTEInterfaceEntry 3 }
```

mdmDTESyncAsyncMode OBJECT-TYPE

```
SYNTAX INTEGER {  
    async(1),  
    sync(2),  
    syncAfterDial(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The operational mode of the modem. If the value is

syncAfterDial(3), the modem will accept commands in

asynchronous mode and change to synchronous mode to pass data after a dial sequence has been executed."

DEFVAL { async }

::= { mdmDTEInterfaceEntry 4 }

mdmDTEInactivityTimeout OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The amount of idle time in minutes that the modem will wait before disconnecting a connection. When a call is connected and no data is transferred (continuous marking condition) on both circuits 103 and 104 for the specified time, the DCE disconnects the call. If the value is 0, no idle disconnect will occur. This function applies to asynchronous dial operations only and is intended for administrative control over idle connections."

REFERENCE "V.58 inactivityTimerSelect"

DEFVAL { 0 }

::= { mdmDTEInterfaceEntry 5 }

-- The Call Control Table

mdmCallControlTable

OBJECT-TYPE

SYNTAX SEQUENCE OF MdmCallControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem Call Control Table augments the modem ID table."

::= { mdmMIBObjects 7 }

mdmCallControlEntry OBJECT-TYPE

SYNTAX MdmCallControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmCallControlTable 1 }

MdmCallControlEntry ::= SEQUENCE {

mdmCCRingsBeforeAnswer Integer32,

```

mdmCCCallSetUpFailTimer Integer32,
mdmCCResultCodeEnable INTEGER,
mdmCCEscapeAction INTEGER,
mdmCCCallDuration Integer32,
mdmCCConnectionFailReason INTEGER
}

```

mdmCCRingsBeforeAnswer OBJECT-TYPE

```

SYNTAX Integer32
MAX-ACCESS read-write
STATUS current
DESCRIPTION

```

"Determines which ring the modem will wait to answer the phone on. If this value is `0', the modem will not go offhook and answer a call when a ring signal is detected."

REFERENCE "V.58 ringsBeforeAnswer"

DEFVAL { 1 }

::= { mdmCallControlEntry 1 }

mdmCCCallSetUpFailTimer OBJECT-TYPE

```

SYNTAX Integer32 (0..255)
MAX-ACCESS read-write
STATUS current
DESCRIPTION

```

"This parameter specifies the amount of time, in seconds, that the modem shall allow between either answering a call (automatically or manually) or completion of dialing, and establishment of a connection with the remote modem. If no connection is established during this time, the modem disconnects from the line and returns a result code indicating the cause of the disconnection. In TIA-602, this is controlled by the value in the S7 register."

REFERENCE "V.58

callSetUpFailTimer"

DEFVAL { 30 }

::= { mdmCallControlEntry 2 }

mdmCCResultCodeEnable OBJECT-TYPE

```

SYNTAX INTEGER {
    disabled(1),
    numericEnabled(2),
    verboseEnabled(3)
}

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"When disabled, the DCE shall issue no 'result codes' of any

kind to the DTE either in response to unsolicited events (eg. ring signal), or commands. In TIA-602, this is controlled by the ATQ command. When numericEnabled, the DCE shall issue result codes in numeric form. When verboseEnabled, the DCE shall issue result codes in a verbose, textual form."

REFERENCE "V.58 responseModeSelect"

DEFVAL { verboseEnabled }

::= { mdmCallControlEntry 3 }

mdmCCEscapeAction OBJECT-TYPE

SYNTAX INTEGER {  
ignoreEscape(1),

hangUp(2),

enterCommandMode(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The modem's action upon successfully recognizing the 'escape to command mode' character sequence."

DEFVAL { ignoreEscape }

::= { mdmCallControlEntry 4 }

-- Call status portion of the call control table

mdmCCCcallDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Present or last completed connection time in seconds. If there have been no previous connections, this value should be -1."

::= { mdmCallControlEntry 5 }

mdmCCConnectionFailReason OBJECT-TYPE

SYNTAX INTEGER {

-- General

unknown(1),

other(2),

managementCommand(3),

inactivityTimeout(4),

mnpIncompatibility(5),



```

        protocolError(6),
-- DCE
        powerLoss(10),
        equipmentFailure(11),
-- DTE Interface
        dtrDrop(20),
-- Line Interface
        noDialTone(30),
        lineBusy(31),
        noAnswer(32),
        voiceDetected(33),
-- Signal Converter
        carrierLost(40),
        trainingFailed(41),
        faxDetected(42)
    }
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"Indicates the reason that the last connection or attempt failed. The meaning of each reason code is explained below.

**unknown:**

This code means the failure reason is unknown or there has been no previous call.

**other:**

This code used when no other code is applicable. Additional vendor information may be available elsewhere.

**managementCommand:**

A management command terminated the call. These commands include escaping to command mode, initiating dialing, restoring lines, and disconnecting.

**inactivityTimeout:**

The call was terminated because it was inactive for at the minimum duration specified.

**mnpIncompatibility:**

The modems are unable to resolve MNP protocol differences.

**protocolError:**

An error occurred in one of the protocols in use. Further information is required to determine in which

protocol the error occurred, and the exact nature of the error.

powerLoss:

The modem lost power and disconnected the call.

equipmentFailure:

The modem equipment failed.

dtrDrop:

DTR has been turned off while the modem is to disconnect on DTR drop. (Ref: V.58 cct108TurnedOff)

noDialTone:

If the modem is to monitor for call progress tones, but the modem has failed to detect dial tone while attempting to dial a number.

lineBusy:

Busy signal is detected while busy signal detection is enabled, or while the 'W' or '@' dial modifier is used. (Ref: V.58 engagedTone)

noAnswer:

The call was not answered.

voiceDetected:

A voice was detected on the call.

carrierLost:

Indicates that the modem has disconnected due to detection of loss of carrier. In TIA-602, the S10 register determines the time that loss of carrier must be detected before the modem disconnects.

trainingFailed:

Indicates that the modems did not successfully train and reach data mode on the previous connection.

faxDetected:

A fax was detected on the call."

REFERENCE "V.58 callCleared"

::= { mdmCallControlEntry 6 }

-- The Stored Dial String table

mdmCCStoredDialStringTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MdmCCStoredDialStringEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "The table of stored dial strings."  
REFERENCE "V.58 telephoneNumbers"  
::= { mdmMIBObjects 8 }

mdmCCStoredDialStringEntry OBJECT-TYPE  
SYNTAX MdmCCStoredDialStringEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "A stored dial string."  
INDEX { mdmIndex, mdmCCStoredDialStringIndex }  
::= { mdmCCStoredDialStringTable 1 }

MdmCCStoredDialStringEntry ::= SEQUENCE {  
    mdmCCStoredDialStringIndex Integer32,  
    mdmCCStoredDialString DisplayString  
}

mdmCCStoredDialStringIndex OBJECT-TYPE  
SYNTAX Integer32 (0..65535)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "The unique index of a particular dial string."  
::= { mdmCCStoredDialStringEntry 1 }

mdmCCStoredDialString OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..64))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION  
    "A dial string stored in the modem."  
::= { mdmCCStoredDialStringEntry 2 }

-- The modem Error Correcting Group

mdmECTable OBJECT-TYPE  
SYNTAX SEQUENCE OF MdmECEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "The modem error correcting table augments the modem ID  
    table."

::= { mdmMIBObjects 9 }

mdmECEEntry OBJECT-TYPE

SYNTAX MdmECEEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

AUGMENTS

{ mdmIDEntry }

::= { mdmECTable 1 }

MdmECEEntry ::= SEQUENCE {

mdmECEErrorControlUsed OBJECT IDENTIFIER

}

mdmECEErrorControlUsed OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Indicates the error control method used during the current or previous call. This shall be one of the values for error control protocols registered in the capabilities table for this modem. If no error control protocol is in use, this object shall have the value '{0 0}'."

REFERENCE "V.58 errorControlActive"

::= { mdmECEEntry 1 }

-- The modem Data Compression Group

mdmDCTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmDCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem data compression table augments the modem ID table."

::= { mdmMIBObjects 10 }

mdmDCEntry OBJECT-TYPE

SYNTAX MdmDCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are created only by the agent. One entry exists for each modem managed by the agent."

```

AUGMENTS { mdmIDEntry }
 ::= { mdmDCTable 1 }

MdmDCEntry ::= SEQUENCE {
  mdmDCCompressionTypeUsed OBJECT IDENTIFIER
}

mdmDCCompressionTypeUsed OBJECT-TYPE
SYNTAX OBJECT IDENTIFIER
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "Indicates the data compression method used during the
  current or previous call. This shall be one of the values
  for compression protocols registered in the capabilities
  table for this modem. If no compression protocol is in use,
  this object shall have the value '{0 0}'."
 ::= { mdmDCEntry 1 }

-- The modem Signal Convertor Group

mdmSCTable OBJECT-TYPE
SYNTAX SEQUENCE OF MdmSCEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "The modem signal convertor table augments the modem ID
  table."
 ::= { mdmMIBObjects 11 }

mdmSCEntry OBJECT-TYPE
SYNTAX MdmSCEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
  "Entries in this table are created only by the agent. One
  entry exists for each modem managed by the agent."
AUGMENTS { mdmIDEntry }
 ::= { mdmSCTable 1 }

MdmSCEntry ::= SEQUENCE {
  mdmSCCurrentLineTransmitRate Integer32,
  mdmSCCurrentLineReceiveRate Integer32,
  mdmSCInitialLineTransmitRate Integer32,
  mdmSCInitialLineReceiveRate Integer32,
  mdmSCModulationSchemeUsed OBJECT IDENTIFIER
}

```

mdmSCCurrentLineTransmitRate OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The current link transmit rate of a connection, or the last  
    link transmit rate of the last connection  
in bits per  
    second."  
REFERENCE "V.58 transmissionSignallingRateActive"  
::= { mdmSCEnt 1 }

mdmSCCurrentLineReceiveRate OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The current link receive rate of a connection, or the last  
    link receive rate of the last connection in bits per  
    second."  
REFERENCE "V.58 transmissionSignallingRateActive"  
::= { mdmSCEnt 2 }

mdmSCInitialLineTransmitRate OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The initial link transmit rate of the current connection,  
    or the initial link transmit rate of the last connection in  
    bits per second."  
::= { mdmSCEnt 3 }

mdmSCInitialLineReceiveRate OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The initial link receive rate of the  
current connection, or  
    the initial link receive rate of the last connection in bits  
    per second."  
::= { mdmSCEnt 4 }

mdmSCModulationSchemeUsed OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The modulation scheme of the current or previous call.  
This shall be one of the values for modulation protocols  
registered in the capabilities table for this modem."

REFERENCE "V.58 gsmModulationSchemeActive"  
::= { mdmSCEntry 5 }

-- The Modem Statistics Table

mdmStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF MdmStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The modem statistics Table augments the modem ID table."

::= { mdmMIBObjects 12 }

mdmStatsEntry OBJECT-TYPE

SYNTAX MdmStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entries in this table are  
created only by the agent. One  
entry exists for each modem managed by the agent."

AUGMENTS { mdmIDEntry }

::= { mdmStatsTable 1 }

MdmStatsEntry ::= SEQUENCE {

mdmStatsRingNoAnswers Counter32,  
mdmStatsIncomingConnectionFailures Counter32,  
mdmStatsIncomingConnectionCompletions Counter32,  
mdmStatsFailedDialAttempts Counter32,  
mdmStatsOutgoingConnectionFailures Counter32,  
mdmStatsOutgoingConnectionCompletions Counter32,  
mdmStatsRetrains Counter32,  
mdmStats2400OrLessConnections Counter32,  
mdmStats2400To14400Connections Counter32,  
mdmStatsGreaterThan14400Connections Counter32,  
mdmStatsErrorControlledConnections Counter32,  
mdmStatsCompressedConnections Counter32,  
mdmStatsCompressionEfficiency Integer32,  
mdmStatsSentOctets Counter32,  
mdmStatsReceivedOctets  
Counter32,  
mdmStatsSentDataFrames Counter32,  
mdmStatsReceivedDataFrames Counter32,  
mdmStatsResentFrames Counter32,

mdmStatsErrorFrames Counter32  
}

mdmStatsRingNoAnswers OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of events in which ringing was detected but the call was not answered."

::= { mdmStatsEntry 1 }

mdmStatsIncomingConnectionFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of incoming connection requests that this modem answered in which it could not train with the other DCE."

::= { mdmStatsEntry 2 }

mdmStatsIncomingConnectionCompletions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of incoming connection requests that this modem answered and successfully trained with the other DCE."

::= { mdmStatsEntry 3 }

mdmStatsFailedDialAttempts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of call attempts that failed because the modem didn't go off hook, or there was no dialtone."

::= { mdmStatsEntry 4 }

mdmStatsOutgoingConnectionFailures OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of outgoing calls from this modem which successfully went off hook and dialed, in which it could not train with the other DCE."



::= { mdmStatsEntry 5 }

mdmStatsOutgoingConnectionCompletions OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of outgoing calls from this modem which resulted

in successfully training with the other DCE."

::= { mdmStatsEntry 6 }

mdmStatsRetrains OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of retrains experienced on connections on this  
line."

::= { mdmStatsEntry 7 }

-- Utilization counters

mdmStats2400OrLessConnections OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of connections initially established at a  
modulation speed of 2400 bits per second or less."

::= { mdmStatsEntry 8 }

mdmStats2400To14400Connections OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of connections initially established at a  
modulation speed of greater than 2400 bits per second and  
less than 14400 bits per second."

::= { mdmStatsEntry 9 }

mdmStatsGreaterThan14400Connections

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The number of connections initially established at a modulation speed of greater than 14400 bits per second."  
::= { mdmStatsEntry 10 }

mdmStatsErrorControlledConnections OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of established connections using an error control protocol."  
::= { mdmStatsEntry 11 }

mdmStatsCompressedConnections OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of established connections using a compression protocol."  
::= { mdmStatsEntry 12 }

mdmStatsCompressionEfficiency OBJECT-TYPE  
SYNTAX Integer32 (0..65535)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of bytes transferred into the compression encoder divided by the number of bytes transferred out of the encoder, multiplied by 100 for either the current or last call. If a data compression protocol is not in use, this value shall be `100`."  
REFERENCE "V.58 compressionEfficiency"  
::= { mdmStatsEntry 13 }

mdmStatsSentOctets OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of octets presented to the modem by the DTE."  
::= { mdmStatsEntry 14 }

mdmStatsReceivedOctets OBJECT-TYPE  
SYNTAX Counter32

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of octets presented to the DTE by the modem."  
 ::= { mdmStatsEntry 15 }

mdmStatsSentDataFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of data frames sent on the line interface. If  
  
    there is no frame-oriented protocol in use on the line  
    interface, this counter shall not increment."  
 ::= { mdmStatsEntry 16 }

mdmStatsReceivedDataFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of data frames received on the line interface.  
    If there is no frame-oriented protocol in use on the line  
    interface, this counter shall not increment."  
 ::= { mdmStatsEntry 17 }

mdmStatsResentFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of times this modem retransmits frames on the  
    line interface. If there is no frame-oriented protocol in  
    use on the line interface, this counter shall not  
    increment."  
 ::= { mdmStatsEntry 18 }

mdmStatsErrorFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The number of block errors received on the link. If there  
    is no frame-oriented protocol in use on the line interface,  
    this counter shall not increment."  
 ::= { mdmStatsEntry 19 }

-- compliance statements

mdmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMPv2 entities which  
implement the modem MIB."

MODULE -- this module

MANDATORY-GROUPS { mdmIDGroup, mdmLineInterfaceGroup,  
mdmDTEInterfaceGroup, mdmCallControlGroup,  
mdmSignalConvertorGroup, mdmStatisticsGroup }

GROUP mdmErrorControlGroup

DESCRIPTION

"This group is mandatory only for those modems that  
implement an error correction protocol."

GROUP mdmDataCompressionGroup

DESCRIPTION

"This group is mandatory only for those modems that  
implement a data compression protocol."

::= { mdmCompliances 1 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB

No license file was found, but licenses were detected in source scan.

SYSAPPL-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE,

Unsigned32, TimeTicks, Counter32, Gauge32

FROM SNMPv2-SMI

DateAndTime, TEXTUAL-CONVENTION

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF

mib-2 FROM SNMPv2-SMI;

-- System Application MIB

sysApplMIB MODULE-IDENTITY

LAST-UPDATED "971020000Z"  
ORGANIZATION "IETF Applications MIB Working Group"  
CONTACT-INFO

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#### DESCRIPTION

"The MIB module defines management objects that model applications as collections of executables and files installed and executing on a host system. The MIB presents a system-level view of applications; i.e., objects in this MIB are limited to those attributes that can typically be obtained from the system itself without adding special instrumentation to the applications."

::= { mib-2 54 }

sysApplOBJ            OBJECT IDENTIFIER ::= { sysApplMIB 1 }  
sysApplInstalled    OBJECT IDENTIFIER ::= { sysApplOBJ 1 }  
sysApplRun            OBJECT IDENTIFIER ::= { sysApplOBJ 2 }  
sysApplMap            OBJECT IDENTIFIER ::= { sysApplOBJ 3 }  
sysApplNotifications OBJECT IDENTIFIER ::= { sysApplMIB 2 }  
sysApplConformance    OBJECT IDENTIFIER ::= { sysApplMIB 3 }

-- Textual Conventions

RunState ::= TEXTUAL-CONVENTION

STATUS    current

#### DESCRIPTION

"This TC describes the current execution state of a running application or process. The possible values are:

running(1),  
runnable(2), - waiting for a resource (CPU, etc.)

```
waiting(3), - waiting for an event
exiting(4),
other(5) - other invalid state"
SYNTAX INTEGER {
    running (1),
    runnable (2), -- waiting for resource (CPU, etc.)
    waiting (3), -- waiting for event
    exiting (4),
    other (5) -- other invalid state
}
```

LongUtf8String ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1024a"

STATUS current

DESCRIPTION

"To facilitate internationalization, this TC represents information taken from the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 character encoding scheme described in RFC 2044 [10]. For strings in 7-bit US-ASCII, there is no impact since the UTF-8 representation is identical to the US-ASCII encoding."

SYNTAX OCTET STRING (SIZE (0..1024))

Utf8String ::= TEXTUAL-CONVENTION

DISPLAY-HINT "255a"

STATUS current

DESCRIPTION

"To facilitate internationalization, this TC represents information taken from the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 character encoding scheme described in RFC 2044 [10]. For strings in 7-bit US-ASCII, there is no impact since the UTF-8 representation is identical to the US-ASCII encoding."

SYNTAX OCTET STRING (SIZE (0..255))

-- sysApplInstalled Group

-- This group provides information about application packages

-- that have been installed on the host computer. The group

-- contains two tables. The first, the sysApplInstallPkgTable,

-- describes the application packages, the second, the

-- sysApplInstallElmtTable, describes the constituent elements

-- (files and executables) which compose an application package.

--  
-- In order to appear in this group, an application and its  
-- component files must be discoverable by the system itself,  
-- possibly through some type of software installation mechanism  
-- or registry.

-- sysApplInstallPkgTable  
-- The system installed application packages table provides  
-- information on the software packages installed on a system.  
-- These packages may consist of many different files including  
-- executable and non-executable files.

sysApplInstallPkgTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table listing

the software application packages

installed on a host computer. In order to appear in  
this table, it may be necessary for the application  
to be installed using some type of software  
installation mechanism or global registry so that its  
existence can be detected by the agent implementation."

::= { sysApplInstalled 1 }

sysApplInstallPkgEntry OBJECT-TYPE

SYNTAX SysApplInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an installed application  
package."

INDEX { sysApplInstallPkgIndex }

::= { sysApplInstallPkgTable 1 }

SysApplInstallPkgEntry ::= SEQUENCE {

sysApplInstallPkgIndex Unsigned32,

sysApplInstallPkgManufacturer Utf8String,

sysApplInstallPkgProductName Utf8String,

sysApplInstallPkgVersion Utf8String,

sysApplInstallPkgSerialNumber

Utf8String,

sysApplInstallPkgDate DateAndTime,

sysApplInstallPkgLocation LongUtf8String

}

sysApplInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An integer used only for indexing purposes.  
Generally monotonically increasing from 1 as new  
applications are installed.

The value for each installed application must  
remain constant at least from one re-initialization of  
the network management entity which implements this  
MIB module to the next re-initialization.

The specific value is meaningful only within a given SNMP  
entity. A sysApplInstallPkgIndex value must not be re-used  
until the next agent entity restart in the event the  
installed application entry is deleted."

::= { sysApplInstallPkgEntry 1 }

sysApplInstallPkgManufacturer

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The Manufacturer of the software application package."

::= { sysApplInstallPkgEntry 2 }

sysApplInstallPkgProductName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name assigned to the software application package  
by the Manufacturer."

::= { sysApplInstallPkgEntry 3 }

sysApplInstallPkgVersion OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The version number assigned to the application package  
by the manufacturer of the software."

::= { sysApplInstallPkgEntry 4 }

sysApplInstallPkgSerialNumber OBJECT-TYPE



SYNTAX Utf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The serial number of the software assigned  
by the  
manufacturer."  
::= { sysApplInstallPkgEntry 5 }

sysApplInstallPkgDate OBJECT-TYPE

SYNTAX DateAndTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The date and time this software application was installed  
on the host."  
::= { sysApplInstallPkgEntry 6 }

sysApplInstallPkgLocation OBJECT-TYPE

SYNTAX LongUtf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The complete path name where the application package  
is installed. For example, the value would be  
'/opt/MyapplDir' if the application package was installed  
in the /opt/MyapplDir directory."  
::= { sysApplInstallPkgEntry 7 }

-- sysApplInstallElmtTable

-- The table describing the individual application package  
-- elements (files and executables) installed on the host computer.

sysApplInstallElmtTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplInstallElmtEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"This table details the individual application package  
elements (files and executables) which comprise the  
applications defined in the sysApplInstallPkg Table.  
Each entry in this table has an index to the  
sysApplInstallPkg table to identify the application  
package of which it is a part. As a result, there may  
be many entries in this table for each instance in the  
sysApplInstallPkg Table.

Table entries are indexed by sysApplInstallPkgIndex, sysApplInstallElmtIndex to facilitate retrieval of all elements associated with a particular installed application package."

::= { sysApplInstalled 2 }

sysApplInstallElmtEntry OBJECT-TYPE

SYNTAX SysApplInstallElmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an element of an installed application. The element may be an executable or non-executable file."

INDEX {sysApplInstallPkgIndex, sysApplInstallElmtIndex}

::= { sysApplInstallElmtTable 1 }

sysApplInstallElmtEntry ::= SEQUENCE {

|                               |                 |
|-------------------------------|-----------------|
| sysApplInstallElmtIndex       | Unsigned32,     |
| sysApplInstallElmtName        | Utf8String,     |
| sysApplInstallElmtType        | INTEGER,        |
| sysApplInstallElmtDate        | DateAndTime,    |
| sysApplInstallElmtPath        | LongUtf8String, |
| sysApplInstallElmtSizeHigh    | Unsigned32,     |
| sysApplInstallElmtSizeLow     | Unsigned32,     |
| sysApplInstallElmtRole        | BITS,           |
| sysApplInstallElmtModifyDate  | DateAndTime,    |
| sysApplInstallElmtCurSizeHigh | Unsigned32,     |
| sysApplInstallElmtCurSizeLow  | Unsigned32      |

}

sysApplInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An arbitrary integer used for indexing. The value of this index is unique among all rows in this table that exist or have existed since the last agent restart."

::= { sysApplInstallElmtEntry 1 }

sysApplInstallElmtName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The name of this element which is contained in the application."

::= { sysAppInstallElmtEntry 2 }

#### sysAppInstallElmtType OBJECT-TYPE

SYNTAX INTEGER {  
    unknown(1),  
    nonexecutable(2),  
    operatingSystem(3), -- executable  
    deviceDriver(4), -- executable  
    application(5) -- executable  
}

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The type of element that is part of the installed application."

::= { sysAppInstallElmtEntry 3 }

#### sysAppInstallElmtDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The date and time that this component was installed on the system."

::= { sysAppInstallElmtEntry 4 }

#### sysAppInstallElmtPath OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The full directory path where this element is installed. For example, the value would be '/opt/EMPuma/bin' for an element installed in the directory '/opt/EMPuma/bin'. Most application packages include information about the elements contained in the package. In addition, elements are typically installed in sub-directories under the package installation directory. In cases where the element path names are not included in the package

information itself, the path can usually be determined by a simple search of the sub-directories. If the element is not installed in that location and there is no other information available to the agent implementation,

then the path is unknown and null is returned."

```
::= { sysAppInstallElmtEntry 5 }
```

#### sysAppInstallElmtSizeHigh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The installed file size in 2<sup>32</sup> byte blocks. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes, this variable would have a value of 1; for a file with a total size of 4,294,967,295 bytes this variable would be 0."

```
::= { sysAppInstallElmtEntry 6 }
```

#### sysAppInstallElmtSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS

read-only

STATUS current

#### DESCRIPTION

"The installed file size modulo 2<sup>32</sup> bytes. This is the size of the file on disk immediately after installation.

For example, for a file with a total size of 4,294,967,296 bytes this variable would have a value of 0; for a file with a total size of 4,294,967,295 bytes this variable would be 4,294,967,295."

```
::= { sysAppInstallElmtEntry 7 }
```

#### sysAppInstallElmtRole OBJECT-TYPE

SYNTAX BITS {

executable(0),

-- An application may have one or  
-- more executable elements. The rest of the  
-- bits have no meaning if the element is not  
-- executable.

exclusive(1),

-- Only one copy of an exclusive element may be  
-- running per invocation of the running  
-- application.

primary(2),

-- The primary executable. An application can  
-- have one, and only one element that is designated  
-- as the primary executable. The execution of

-- this element constitutes an invocation of  
-- the application. This is used by the agent  
-- implementation to determine the initiation of  
-- an application. The primary executable must  
-- remain running long enough for the agent  
-- implementation to detect its presence.

required(3),

-- An application may have zero or more required  
-- elements. All required elements must be running

-- in order for the application to be judged to be  
-- running and healthy.

dependent(4),

-- An application may have

zero or more

-- dependent elements. Dependent elements may  
-- not be running unless required elements are.

unknown(5)

-- Default value for the case when an operator  
-- has not yet assigned one of the other values.  
-- When set, bits 1, 2, 3, and 4 have no meaning.

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An operator assigned value used in the determination of application status. This value is used by the agent to determine both the mapping of started processes to the initiation of an application, as well as to allow for a determination of application health. The default value, unknown(5), is used when an operator has not yet assigned one of the other values. If unknown(5) is set, bits 1 - 4 have no meaning. The possible values are:

executable(0),

An application may have one or more executable elements. The rest of the bits have no meaning if the element is not executable.

exclusive(1),

Only one copy of an exclusive element may be running per invocation of the running application.

primary(2),

The primary executable. An application can have one, and only one element that is designated as the primary executable. The execution of this element constitutes an invocation of

the application. This is used by the agent implementation to determine the initiation of an application. The primary executable must remain running long enough for the agent

implementation to detect its presence.

required(3),

An application may have zero or more required elements. All required elements must be running in order for the application to be judged to be running and healthy.

dependent(4),

An application may have zero or more dependent elements. Dependent elements may not be running unless required elements are.

unknown(5)

Default value for the case when an operator has not yet assigned one of the other values. When set, bits 1, 2, 3, and 4 have no meaning.

sysAppInstallElmtRole is used by the agent implementation in determining the initiation of an application, the current state of a running application (see sysAppRunCurrentState), when an application invocation is no longer running, and the exit status of a terminated application invocation (see sysAppIPastRunExitState)."

```
DEFVAL { { unknown } }  
::= { sysAppInstallElmtEntry 8 }
```

sysAppInstallElmtModifyDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time that this element was last modified. Modification of the sysAppInstallElmtRole columnar object does NOT constitute a modification of the element itself and should not affect the value of this object."

```
::= { sysAppInstallElmtEntry 9 }
```

sysAppInstallElmtCurSizeHigh OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current file size in 2<sup>32</sup> byte blocks. For example, for a file with a total size of 4,294,967,296

bytes,  
this variable would have a value of 1; for a file  
with a total size of 4,294,967,295 bytes this variable  
would be 0."  
::= { sysApplInstallElmtEntry 10 }

sysApplInstallElmtCurSizeLow OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current file size modulo 2<sup>32</sup> bytes.

For example, for a file with a total size of 4,294,967,296  
bytes this variable would have a value of 0; for a file with  
a total size of 4,294,967,295 bytes this variable would be  
4,294,967,295."

::= { sysApplInstallElmtEntry 11 }

-- sysApplRun Group  
-- This group models activity information for applications  
-- that have been invoked and are either currently running,  
-- or have previously run on the host system. Likewise,  
-- the individual elements of an invoked application are  
-- also modeled to show currently running processes, and  
-- processes that  
have run in the past.

-- sysApplRunTable  
-- The sysApplRunTable contains the application instances  
-- which are currently running on the host. Since a single  
-- application might be invoked multiple times, an entry is  
-- added to this table for each INVOCATION of an application.  
-- The table is indexed by sysApplInstallPkgIndex, sysApplRunIndex  
-- to enable managers to easily locate all invocations of  
-- a particular application package.

sysApplRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table describes the applications which are executing  
on the host. Each time an application is invoked,  
an entry is created in this table. When an application ends,  
the entry is removed from this table and a corresponding  
entry is created in the SysApplPastRunTable.

A new entry is created in this table whenever the agent implementation detects a new running process that is an installed application element whose `sysApplInstallElmtRole` designates it as being the application's primary executable (`sysApplInstallElmtRole = primary(2)`).

The table is indexed by `sysApplInstallPkgIndex`, `sysApplRunIndex` to enable managers to easily locate all invocations of a particular application package."

```
::= { sysApplRun 1 }
```

`sysApplRunEntry` OBJECT-TYPE

SYNTAX `SysApplRunEntry`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an application which is currently running on this host."

INDEX { `sysApplInstallPkgIndex`, `sysApplRunIndex` }

```
::= { sysApplRunTable 1 }
```

`SysApplRunEntry ::= SEQUENCE {`

`sysApplRunIndex` Unsigned32,

`sysApplRunStarted` DateAndTime,

`sysApplRunCurrentState`

`RunState`

`}`

`sysApplRunIndex` OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An arbitrary integer used only for indexing purposes. Generally monotonically increasing from 1 as new applications are started on the host, it uniquely identifies application invocations.

The numbering for this index increases by 1 for each INVOCATION of an application, regardless of which installed application package this entry represents a running instance of.

An example of the indexing for a couple of entries is shown below.



:  
sysApplRunStarted.17.14  
sysApplRunStarted.17.63  
sysApplRunStarted.18.13  
:

In this example, the agent has observed 12 application

invocations when the application represented by entry 18 in the sysApplInstallPkgTable is invoked. The next invocation detected by the agent is an invocation of installed application package 17. Some time later, installed application 17 is invoked a second time.

NOTE: this index is not intended to reflect a real-time (wall clock time) ordering of application invocations; it is merely intended to uniquely identify running instances of applications. Although the sysApplInstallPkgIndex is included in the INDEX clause for this table, it serves only to ease searching of this table by installed application and does not contribute to uniquely identifying table entries."

::= { sysApplRunEntry 1 }

sysApplRunStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time that the application was started."

::= { sysApplRunEntry 2 }

sysApplRunCurrentState OBJECT-TYPE

SYNTAX RunState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the running application instance. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5). This value is based on an evaluation of the running elements of this application instance (see sysApplElmRunState) and their Roles as defined by sysApplInstallElmRole. An agent implementation may detect that an application instance is in the process of exiting if one or more of its REQUIRED elements are no

longer running. Most agent implementations will wait until a second internal poll has been completed to give the system time to start REQUIRED elements before marking the

application instance as exiting."

```
::= { sysApplRunEntry 3 }
```

```
-- sysApplPastRunTable
```

```
-- The sysApplPastRunTable provides a history of applications
-- previously run on the host computer. Entries are removed from
-- the sysApplRunTable and corresponding entries are added to this
-- table when an application becomes inactive. Entries remain in
-- this table until they are aged out when either the table size
-- reaches a maximum as determined by the sysApplPastRunMaxRows,
-- or when an entry has aged to exceed a time limit as set by
-- sysApplPastRunTblTimeLimit.
```

```
--
```

```
-- When aging out entries, the oldest entry, as determined by
```

```
-- the value of sysApplPastRunTimeEnded, will be removed first.
```

sysApplPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A history of the applications that have previously run on the host

computer. An entry's information is moved to

this table from the sysApplRunTable when the invoked application represented by the entry ceases to be running.

An agent implementation can determine that an application invocation is no longer running by evaluating the running elements of the application instance and their Roles as defined by sysApplInstallElmtRole. Obviously, if there are no running elements for the application instance, then the application invocation is no longer running.

If any one of the REQUIRED elements is not running, the application instance may be in the process of exiting.

Most agent implementations will wait until a second internal poll has been completed to give the system time to either restart partial failures or to give all elements time to exit. If, after the second poll, there are REQUIRED elements that

are not running, then the application

instance may be considered by the agent implementation

to no longer be running.

Entries remain in the sysApplPastRunTable until they are aged out when either the table size reaches a maximum as determined by the sysApplPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplPastRunTblTimeLimit.

Entries in this table are indexed by sysApplInstallPkgIndex, sysApplPastRunIndex to facilitate retrieval of all past run invocations of a particular installed application."

```
::= { sysApplRun 2 }
```

sysApplPastRunEntry OBJECT-TYPE

SYNTAX SysApplPastRunEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an invocation of an application which was previously run and has terminated. The entry is basically copied from the sysApplRunTable

when the

application instance terminates. Hence, the entry's value for sysApplPastRunIndex is the same as its value was for sysApplRunIndex."

```
INDEX { sysApplInstallPkgIndex, sysApplPastRunIndex }
```

```
::= { sysApplPastRunTable 1 }
```

SysApplPastRunEntry ::= SEQUENCE {

sysApplPastRunIndex Unsigned32,

sysApplPastRunStarted DateAndTime,

sysApplPastRunExitState INTEGER,

sysApplPastRunTimeEnded DateAndTime

}

sysApplPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An integer matching the value of the removed sysApplRunIndex corresponding to this row."

```
::= { sysApplPastRunEntry 1 }
```

sysApplPastRunStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS

current

DESCRIPTION

"The date and time that the application was started."

::= { sysApplPastRunEntry 2 }

sysApplPastRunExitState OBJECT-TYPE

SYNTAX INTEGER {

complete (1), -- normal exit at sysApplRunTimeEnded

failed (2), -- abnormal exit

other (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The state of the application instance when it terminated.

This value is based on an evaluation of the running elements

of an application and their Roles as defined by

sysApplInstallElmtRole. An application instance is said to

have exited in a COMPLETE state and its entry is removed

from the sysApplRunTable and added to the sysApplPastRunTable

when the agent detects that ALL elements of an application

invocation are no longer running. Most agent implementations

will wait

until a second internal poll has been completed to

give the system time to either restart partial failures or

to give all elements time to exit. A failed state occurs if,

after the second poll, any elements continue to run but

one or more of the REQUIRED elements are no longer running.

All other combinations MUST be defined as OTHER."

::= { sysApplPastRunEntry 3 }

sysApplPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The DateAndTime the application instance was determined

to be no longer running."

::= { sysApplPastRunEntry 4 }

-- sysApplElmtRunTable

-- The sysApplElmtRunTable contains an entry for each process that

-- is currently running on the host. An entry is created in

-- this table for each process at the time it is started, and will

-- remain in the table until the process terminates.

--

-- The table

is indexed by sysAppElmtRunInstallPkg,  
-- sysAppElmtRunInvocID, and sysAppElmtRunIndex to make it easy  
-- to locate all running elements of a particular invoked application  
-- which has been installed on the system.

#### sysAppElmtRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The table describes the processes which are currently executing on the host system. Each entry represents a running process and is associated with the invoked application of which that process is a part, if possible. This table contains an entry for every process currently running on the system, regardless of whether its 'parent' application can be determined. So, for example, processes like 'ps' and 'grep' will have entries though they are not associated with an installed application package.

Because

a running application may involve

more than one executable, it is possible to have multiple entries in this table for each application.

Entries are removed from this table when the process terminates.

The table is indexed by sysAppElmtRunInstallPkg, sysAppElmtRunInvocID, and sysAppElmtRunIndex to facilitate the retrieval of all running elements of a particular invoked application which has been installed on the system."

::= { sysAppRun 3 }

#### sysAppElmtRunEntry OBJECT-TYPE

SYNTAX SysAppElmtRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The logical row describing a process currently running on this host. When possible, the entry is associated with the invoked application of which it is a part."

INDEX { sysAppElmtRunInstallPkg, sysAppElmtRunInvocID,  
sysAppElmtRunIndex

}

::= { sysAppElmtRunTable 1 }

```

SysAppElmtRunEntry ::= SEQUENCE {
    sysAppElmtRunInstallPkg    Unsigned32,
    sysAppElmtRunInvocID      Unsigned32,
    sysAppElmtRunIndex        Unsigned32,
    sysAppElmtRunInstallIID    Unsigned32,
    sysAppElmtRunTimeStarted   DateAndTime,
    sysAppElmtRunState        RunState,
    sysAppElmtRunName         LongUtf8String,
    sysAppElmtRunParameters   Utf8String,
    sysAppElmtRunCPU          TimeTicks,
    sysAppElmtRunMemory       Gauge32,
    sysAppElmtRunNumFiles     Gauge32,
    sysAppElmtRunUser         Utf8String
}

```

sysAppElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies the installed software package for the application of which this process

is a part.

Provided that the process's 'parent' application can be determined, the value of this object is the same value as the sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this process cannot be related back to an application, and in turn, an installed software package."

::= { sysAppElmtRunEntry 1 }

sysAppElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies the invocation of an application of which this process is a part. Provided that the 'parent' application can be determined, the value of this object

is the same value as the sysApplRunIndex for the corresponding application invocation in the sysApplRunTable.

If, however, the 'parent' application cannot be determined, the value for this object is then '0', signifying that this process cannot be related back to an invocation of an application in the sysApplRunTable."

::= { sysApplElmtRunEntry 2 }

sysApplElmtRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. A unique value for each process running on the host. Wherever possible, this should be the system's native, unique identification number."

::= { sysApplElmtRunEntry 3 }

sysApplElmtRunInstallID

OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index into the sysApplInstallElmtTable. The value of this object is the same value as the sysApplInstallElmtIndex for the application element of which this entry represents a running instance. If this process cannot be associated with an installed executable, the value should be '0'."

::= { sysApplElmtRunEntry 4 }

sysApplElmtRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

::= { sysApplElmtRunEntry 5 }

sysApplElmtRunState OBJECT-TYPE

SYNTAX RunState

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the running process. The possible values are running(1), runnable(2) but waiting for a resource such as CPU, waiting(3) for an event, exiting(4), or other(5)."

::= { sysAppElmtRunEntry 6 }

sysAppElmtRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process. For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path is '/opt/MYYpkg/bin/myyproc'."

::= { sysAppElmtRunEntry 7 }

sysAppElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtRunEntry 8 }

sysAppElmtRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of centi-seconds of the total system's CPU resources consumed by this process."

Note that

on a multi-processor system, this value may have been incremented by more than one centi-second in one centi-second of real (wall clock) time."

::= { sysAppElmtRunEntry 9 }

sysAppElmtRunMemory OBJECT-TYPE

SYNTAX Gauge32

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total amount of real system memory measured in Kbytes currently allocated to this process."



```
::= { sysAppElmtRunEntry 10 }
```

sysAppElmtRunNumFiles OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of regular files currently open by the process. Transport connections (sockets) should NOT be included in the calculation of this value, nor should operating system specific special file types."

```
::= { sysAppElmtRunEntry 11 }
```

sysAppElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The process owner's login name (e.g. root)."

```
::= { sysAppElmtRunEntry 12 }
```

-- sysAppElmtPastRunTable

-- The sysAppElmtPastRunTable maintains a history of  
-- processes which have previously executed on  
-- the host as part of an application. Upon termination  
-- of a process, the entry representing the process is removed from  
-- the sysAppElmtRunTable and a corresponding entry is created in  
-- this table provided that the process was part of an  
-- identifiable application. If the process could not be associated

-- with an invoked application, no corresponding entry is created.  
-- Hence, whereas the sysAppElmtRunTable contains an entry for  
-- every process currently executing on the system, the  
-- sysAppElmtPastRunTable only contains entries for processes  
-- that previously executed as part of an invoked application.

--

-- Entries

remain in this table until they are aged out when  
-- either the number of entries in the table reaches a  
-- maximum as determined by sysAppElmtPastRunMaxRows, or  
-- when an entry has aged to exceed a time limit as set by  
-- sysAppElmtPastRunTblTimeLimit. When aging out entries,  
-- the oldest entry, as determined by the value of  
-- sysAppElmtPastRunTimeEnded, will be removed first.

--

-- The table is indexed by sysApplInstallPkgIndex (from the

-- sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and  
-- sysApplElmtPastRunIndex to make it easy to locate all  
-- previously executed processes of a particular invoked application  
-- that has been installed on the system.

#### sysApplElmtPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The table describes the processes which have previously executed on the host system as part of an application.

Each entry represents a process which has previously executed and is associated with the invoked application of which it was a part. Because an invoked application may involve more than one executable, it is possible to have multiple entries in this table for each application invocation. Entries are added to this table when the corresponding process in the sysApplElmtRun Table terminates.

Entries remain in this table until they are aged out when either the number of entries in the table reaches a maximum as determined by sysApplElmtPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysApplElmtPastRunTblTimeLimit. When aging out entries, the oldest entry, as determined by the value of sysApplElmtPastRunTimeEnded, will be removed first.

The table is indexed by sysApplInstallPkgIndex (from the sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and sysApplElmtPastRunIndex to make it easy to locate all previously executed processes of a particular invoked application that has been installed on the system."

::= { sysApplRun 4 }

#### sysApplElmtPastRunEntry OBJECT-TYPE

SYNTAX SysApplElmtPastRunEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The logical row describing a process which was previously executed on this host as part of an installed application. The entry is basically copied from the sysApplElmtRunTable when the process terminates. Hence, the entry's value for sysApplElmtPastRunIndex is the same as its value

was for sysAppElmtRunIndex. Note carefully: only those processes which could be associated with an identified application are included in this table."

```
INDEX { sysAppInstallPkgIndex,  
sysAppElmtPastRunInvocID,  
    sysAppElmtPastRunIndex }  
::= { sysAppElmtPastRunTable 1 }
```

```
SysAppElmtPastRunEntry ::= SEQUENCE {  
    sysAppElmtPastRunInvocID    Unsigned32,  
    sysAppElmtPastRunIndex     Unsigned32,  
    sysAppElmtPastRunInstallID Unsigned32,  
    sysAppElmtPastRunTimeStarted DateAndTime,  
    sysAppElmtPastRunTimeEnded  DateAndTime,  
    sysAppElmtPastRunName       LongUtf8String,  
    sysAppElmtPastRunParameters Utf8String,  
    sysAppElmtPastRunCPU        TimeTicks,  
    sysAppElmtPastRunMemory     Unsigned32,  
    sysAppElmtPastRunNumFiles   Unsigned32,  
    sysAppElmtPastRunUser       Utf8String  
}
```

sysAppElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table, this value identifies

the invocation of an application of which

the process represented by this entry was a part.

The value of this object is the same value as the sysAppRunIndex for the corresponding application invocation in the sysAppRunTable. If the invoked application as a whole has terminated, it will be the same as the sysAppPastRunIndex."

```
::= { sysAppElmtPastRunEntry 1 }
```

sysAppElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Part of the index for this table. An integer assigned by the agent equal to the corresponding sysAppElmtRunIndex which was removed from the sysAppElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by  
sysAppElmtPastRunInvocID, sysAppElmtPastRunIndex.

The possibility  
exists, though unlikely, of a  
collision occurring by a new entry which was run  
by the same invoked application (InvocID), and  
was assigned the same process identification number  
(ElmtRunIndex) as an element which was previously  
run by the same invoked application.

Should this situation occur, the new entry replaces  
the old entry.

See Section: 'Implementation Issues -  
sysAppElmtPastRunTable Entry Collisions' for the  
conditions that would have to occur in order for a  
collision to occur."

```
::= { sysAppElmtPastRunEntry 2 }
```

sysAppElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The index into the installed element table. The  
value of this object is the same value as the  
sysAppInstallElmtIndex for the application element

of which this entry represents a previously executed  
process."

```
::= { sysAppElmtPastRunEntry 3 }
```

sysAppElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

```
::= { sysAppElmtPastRunEntry 4 }
```

sysAppElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process ended."

::= { sysAppElmtPastRunEntry 5 }

sysAppElmtPastRunName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The full path and filename of the process.

For example, '/opt/MYYpkg/bin/myyproc' would be returned for process 'myyproc' whose execution path was '/opt/MYYpkg/bin/myyproc'."

::= { sysAppElmtPastRunEntry 6 }

sysAppElmtPastRunParameters

OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtPastRunEntry 7 }

sysAppElmtPastRunCPU OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last known number of centi-seconds of the total system's CPU resources consumed by this process.

Note that on a multi-processor system, this value may increment by more than one centi-second in one centi-second of real (wall clock) time."

::= { sysAppElmtPastRunEntry 8 }

sysAppElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

UNITS "Kbytes"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last known total amount of real system memory measured in Kbytes allocated to this process before it

terminated."

::= { sysAppElmtPastRunEntry 9 }

sysAppElmtPastRunNumFiles OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The last known number of files open by the process before it terminated. Transport connections (sockets) should NOT be included in the calculation of this value."  
::= { sysAppElmtPastRunEntry 10 }

sysAppElmtPastRunUser OBJECT-TYPE

SYNTAX Utf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The process owner's login name (e.g. root)."  
::= { sysAppElmtPastRunEntry 11 }

-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The maximum number of entries allowed in the sysApplPastRunTable.

Once the number of rows in

the sysApplPastRunTable reaches this value, the management subsystem will remove the oldest entry in the table to make room for the new entry to be added. Entries will be removed on the basis of oldest sysApplPastRunTimeEnded value first.

This object may be used to control the amount of system resources that can be used for sysApplPastRunTable entries. A conforming implementation should attempt to support the default value, however, a lesser value may be necessary due to implementation-dependent issues and resource availability."

DEFVAL { 500 }  
::= { sysApplRun 5 }

sysApplPastRunTableRemItems OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"A counter of the number of entries removed from the sysApplPastRunTable because of table size limitations

as set in sysApplPastRunMaxRows. This counter is the number of entries the management subsystem has had to remove in order to make room for new entries (so as not to exceed the limit set by sysApplPastRunMaxRows) since the last initialization of the management subsystem."

::= { sysApplRun 6 }

#### sysApplPastRunTblTimeLimit OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The maximum time in seconds which an entry in the sysApplPastRunTable may exist before it is removed. Any entry that is older than this value will be removed (aged out) from the table.

Note that an entry may be aged out prior to reaching this time limit if it is the oldest entry in the table and must be removed to make space for a new entry so as to not exceed sysApplPastRunMaxRows."

DEFVAL { 7200 }

::= { sysApplRun 7 }

#### sysApplElemPastRunMaxRows OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"The maximum number of entries allowed in the sysApplElmtPastRunTable. Once the number of rows in the sysApplElmtPastRunTable reaches this value, the management subsystem will remove the oldest entry to make room for the new entry to be added. Entries will be removed on the basis of oldest sysApplElmtPastRunTimeEnded value first.

This object may be used to control the amount of system resources that can be used for sysApplElemPastRunTable entries. A conforming implementation should attempt to support the default value, however, a lesser value may be necessary due to implementation-dependent issues and resource availability."

DEFVAL

```
{ 500 }  
::= { sysApplRun 8 }
```

sysApplElemPastRunTableRemItems OBJECT-TYPE

```
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION
```

"A counter of the number of entries removed from the sysApplElemPastRunTable because of table size limitations as set in sysApplElemPastRunMaxRows. This counter is the number of entries the management subsystem has had to remove in order to make room for new entries (so as not to exceed the limit set by sysApplElemPastRunMaxRows) since the last initialization of the management subsystem."

```
::= { sysApplRun 9 }
```

sysApplElemPastRunTblTimeLimit OBJECT-TYPE

```
SYNTAX Unsigned32 (0..'ffffff'h)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"The maximum time in seconds which an entry in the sysApplElemPastRunTable may exist before it is removed.

Any entry that is older than this value will be removed (aged out) from the table.

Note that an entry may be aged out prior to reaching this time limit if it is the oldest entry in the table and must be removed to make space for a new entry so as to not exceed sysApplElemPastRunMaxRows."

```
DEFVAL { 7200 }  
::= { sysApplRun 10 }
```

sysApplAgentPollInterval OBJECT-TYPE

```
SYNTAX Unsigned32 (0..'ffffff'h)  
UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION
```

"The minimum interval in seconds that the management subsystem implementing this MIB will poll the status of the managed resources. Because of the non-trivial effort involved in polling the managed resources, and because the method for obtaining the status of the managed resources is implementation-dependent,



a conformant implementation  
may chose a lower bound  
greater than 0.

A value of 0 indicates that there is no delay  
in the passing of information from the managed  
resources to the agent."

DEFVAL { 60 }  
 ::= { sysApplRun 11 }

```
-- sysApplMap Group
-- This group contains a table, the sysApplMapTable,
-- whose sole purpose is to provide a 'backwards'
-- mapping so that, given a known sysApplElmtRunIndex
-- (process identification number), the corresponding invoked
-- application (sysApplRunIndex), installed element
-- (sysApplInstallElmtIndex), and installed application
-- package (sysApplInstallPkgIndex) can be quickly determined.
--
-- The table will contain one entry for each process
-- currently running on the system.
--
-- A backwards mapping is extremely useful since the tables
-- in this MIB module are typically indexed with the
-- installed application package (sysApplInstallPkgIndex)
-- as the primary key, and on down
as required by the
-- specific table, with the process ID number (sysApplElmtRunIndex)
-- being the least significant key.
--
-- It is expected that management applications will use
-- this mapping table by doing a 'GetNext' operation with
-- the known process ID number (sysApplElmtRunIndex) as the partial
-- instance identifier. Assuming that there is an entry for
-- the process, the result should return a single columnar value,
-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,
-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the
-- instance identifier for the returned MIB object value.
--
-- NOTE: if the process can not be associated back to an
-- invoked application installed on the system, then the
-- value returned for the columnar value sysApplMapInstallPkgIndex
-- will be '0' and the instance portion of the object-identifier
-- will be the process ID number (sysApplElmtRunIndex) followed
-- by 0.0.
```

sysApplMapTable

OBJECT-TYPE

SYNTAX SEQUENCE OF SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The sole purpose of this table is to provide a 'backwards' mapping so that, given a known sysApplElmtRunIndex (process identification number), the corresponding invoked application (sysApplRunIndex), installed element (sysApplInstallElmtIndex), and installed application package (sysApplInstallPkgIndex) can be quickly determined.

This table will contain one entry for each process that is currently executing on the system.

It is expected that management applications will use this mapping table by doing a 'GetNext' operation with the known process ID number (sysApplElmtRunIndex) as the partial instance identifier. Assuming that there is an entry for the process, the result should return a single columnar

value, the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex, sysApplRunIndex, and sysApplInstallElmtIndex contained in the instance identifier for the returned MIB object value.

NOTE: if the process can not be associated back to an invoked application installed on the system, then the value returned for the columnar value sysApplMapInstallPkgIndex will be '0' and the instance portion of the object-identifier will be the process ID number (sysApplElmtRunIndex) followed by 0.0."

::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE

SYNTAX SysApplMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A logical row representing a process currently running on the system. This entry provides the index mapping from process identifier, back to the invoked application, installed element, and finally, the installed application

package. The entry includes only one accessible columnar object, the sysApplMapInstallPkgIndex, but the

invoked application and installed element can be determined from the instance identifier since they form part of the index clause."

```
INDEX { sysAppElmtRunIndex, sysAppElmtRunInvocID,  
        sysAppMapInstallElmtIndex }  
::= { sysAppMapTable 1 }
```

```
SysAppMapEntry ::= SEQUENCE {  
    sysAppMapInstallElmtIndex Unsigned32,  
    sysAppMapInstallPkgIndex Unsigned32  
}
```

sysAppMapInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index into the sysAppInstallElmtTable. The value of this object is the same value as the sysAppInstallElmtIndex for the application element of which this entry represents a running instance.

If this

process cannot be associated to an installed executable, the value should be '0'."

```
::= { sysAppMapEntry 1 }
```

sysAppMapInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of this object identifies the installed software package for the application of which this process is a part. Provided that the process's 'parent' application can be determined, the value of this object is the same value as the sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable that corresponds to the installed application of which this process is a part.

If, however, the 'parent' application cannot be determined, (for example the process is not part of a particular installed application), the value for this object is then '0', signifying that this

process cannot be related back to an application, and in turn, an installed software package."

```
::= { sysAppMapEntry 2 }
```

```

-- Conformance Macros
sysApplMIBCompliances OBJECT IDENTIFIER ::= { sysApplConformance 1 }
sysApplMIBGroups      OBJECT IDENTIFIER ::= { sysApplConformance 2 }

sysApplMIBCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "Describes the requirements for conformance to
        the System Application MIB"
    MODULE -- this module
        MANDATORY-GROUPS { sysApplInstalledGroup,
                            sysApplRunGroup, sysApplMapGroup }
    ::= { sysApplMIBCompliances 1 }

sysApplInstalledGroup OBJECT-GROUP
    OBJECTS { sysApplInstallPkgManufacturer,
              sysApplInstallPkgProductName,
              sysApplInstallPkgVersion,
              sysApplInstallPkgSerialNumber,
              sysApplInstallPkgDate,
              sysApplInstallPkgLocation,
              sysApplInstallElmtName,
              sysApplInstallElmtType,
              sysApplInstallElmtDate,
              sysApplInstallElmtPath,
              sysApplInstallElmtSizeHigh,
              sysApplInstallElmtSizeLow,
              sysApplInstallElmtRole,
              sysApplInstallElmtModifyDate,
              sysApplInstallElmtCurSizeHigh,
              sysApplInstallElmtCurSizeLow }
    STATUS current
    DESCRIPTION
        "The system application installed group contains
        information about applications and their constituent
        components which have been installed on the host system."
    ::= { sysApplMIBGroups 1 }

sysApplRunGroup OBJECT-GROUP
    OBJECTS { sysApplRunStarted,
              sysApplRunCurrentState,
              sysApplPastRunStarted,
              sysApplPastRunExitState,
              sysApplPastRunTimeEnded,
              sysApplElmtRunInstallID,
              sysApplElmtRunTimeStarted,

```

```

sysAppElmtRunState,
  sysAppElmtRunName,
sysAppElmtRunParameters,
sysAppElmtRunCPU,
sysAppElmtRunMemory,
sysAppElmtRunNumFiles,
sysAppElmtRunUser,
sysAppElmtPastRunInstallID,
sysAppElmtPastRunTimeStarted,
sysAppElmtPastRunTimeEnded,
sysAppElmtPastRunName,
sysAppElmtPastRunParameters,
sysAppElmtPastRunCPU,
sysAppElmtPastRunMemory,
sysAppElmtPastRunNumFiles,
sysAppElmtPastRunUser,
sysAppPastRunMaxRows,
sysAppPastRunTblRemItems,
sysAppPastRunTblTimeLimit,
sysAppElemPastRunMaxRows,
sysAppElemPastRunTableRemItems,
sysAppElemPastRunTblTimeLimit,
sysAppAgentPollInterval }

```

STATUS current

DESCRIPTION

"The system application

run group contains information

about applications and associated elements which have  
run or are currently running on the host system."

::= { sysAppMIBGroups 2 }

sysAppMapGroup OBJECT-GROUP

OBJECTS { sysAppMapInstallPkgIndex }

STATUS current

DESCRIPTION

"The Map Group contains a single table, sysAppMapTable,  
that provides a backwards mapping for determining the  
invoked application, installed element, and installed  
application package given a known process identification  
number."

::= { sysAppMIBGroups 3 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-  
MIB

No license file was found, but licenses were detected in source scan.

DIFFSERV-MIB DEFINITIONS ::= BEGIN

IMPORTS

Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,  
OBJECT-IDENTITY, zeroDotZero, mib-2

FROM SNMPv2-SMI

TEXTUAL-CONVENTION, RowStatus, RowPointer,  
StorageType, AutonomousType

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF

ifIndex, InterfaceIndexOrZero

FROM IF-MIB

InetAddressType, InetAddress, InetAddressPrefixLength,  
InetPortNumber

FROM INET-ADDRESS-MIB

BurstSize

FROM INTEGRATED-SERVICES-MIB

Dscp, DscpOrAny

FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY

LAST-UPDATED "200202070000Z"

ORGANIZATION "IETF Differentiated Services WG"

CONTACT-INFO

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21 North Xisanhuan Ave.  
Beijing, 100089, PRC  
E-mail: ah\_smith@acm.org

Differentiated Services Working Group:  
diffserv@ietf.org"

DESCRIPTION

"This MIB defines the objects necessary to manage a device that uses the Differentiated Services Architecture described in RFC 2475. The Conceptual Model of a Differentiated Services Router provides supporting information on how such a router is modeled."

REVISION "200202070000Z"

DESCRIPTION

"Initial version, published as RFC 3289."

::= { mib-2 97 }

diffServMIBObjects OBJECT IDENTIFIER ::= { diffServMib 1 }  
diffServMIBConformance OBJECT IDENTIFIER ::= { diffServMib 2 }  
diffServMIBAdmin  
OBJECT IDENTIFIER ::= { diffServMib 3 }

IndexInteger ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a table index."

SYNTAX Unsigned32 (1..4294967295)

IndexIntegerNextFree ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"An integer which may be used as a new Index in a table.

The special value of 0 indicates that no more new entries can be created in the relevant table.

When a MIB is used for configuration, an object with this SYNTAX always contains a legal value (if non-zero) for an index that is not currently used in the relevant table. The Command Generator (Network Management Application) reads this variable and uses the (non-zero) value read when creating a new row with an SNMP SET. When the SET is performed, the Command Responder (agent) must determine whether the value is indeed

still unused; Two Network

Management Applications may attempt to create a row (configuration entry) simultaneously and use the same value. If it is currently unused, the SET succeeds and the Command Responder (agent) changes the value of this object, according to an implementation-specific algorithm. If the value is in use,

however, the SET fails. The Network Management Application must then re-read this variable to obtain a new usable value.

An OBJECT-TYPE definition using this SYNTAX MUST specify the relevant table for which the object is providing this functionality."

SYNTAX Unsigned32 (0..4294967295)

IfDirection ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"IfDirection specifies a direction of data travel on an interface. 'inbound' traffic is operated on during reception from the interface, while 'outbound' traffic is operated on prior to transmission on the interface."

SYNTAX INTEGER {

inbound(1), -- ingress interface

outbound(2) -- egress interface

}

--

-- Data Path

--

diffServDataPath OBJECT IDENTIFIER ::= { diffServMIBObjects 1 }

--

-- Data Path Table

--

-- The Data Path Table enumerates the Differentiated Services  
-- Functional Data Paths within this device. Each entry in this table  
-- is indexed by ifIndex and ifDirection. Each entry provides the  
-- first Differentiated Services Functional Data Path Element to  
-- process data flowing along specific data path. This table should  
-- have at most two entries for each interface capable of  
-- Differentiated Services processing on this device: ingress and  
-- egress.

-- Note that Differentiated Services Functional Data Path Elements  
-- linked together using their individual next pointers and anchored by  
-- an entry of the diffServDataPathTable constitute a functional data  
-- path.

--

diffServDataPathTable OBJECT-TYPE



## SYNTAX

SEQUENCE OF DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"The data path table contains RowPointers indicating the start of the functional data path for each interface and traffic direction in this device. These may merge, or be separated into parallel data paths."

::= { diffServDataPath 1 }

## diffServDataPathEntry OBJECT-TYPE

SYNTAX DiffServDataPathEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An entry in the data path table indicates the start of a single Differentiated Services Functional Data Path in this device.

These are associated with individual interfaces, logical or physical, and therefore are instantiated by ifIndex. Therefore, the interface index must have been assigned, according to the procedures applicable to that, before it can be meaningfully used. Generally, this means that the interface must exist.

When diffServDataPathStorage is of type nonVolatile, however, this may reflect the configuration for an interface whose ifIndex has been assigned but for which the supporting implementation is not currently present."

INDEX { ifIndex, diffServDataPathIfDirection }

::= { diffServDataPathTable 1 }

```
DiffServDataPathEntry ::= SEQUENCE {  
    diffServDataPathIfDirection IfDirection,  
    diffServDataPathStart RowPointer,  
    diffServDataPathStorage StorageType,  
    diffServDataPathStatus RowStatus  
}
```

## diffServDataPathIfDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"IfDirection specifies whether the reception or transmission path for this interface is in view."

::= { diffServDataPathEntry 1 }

diffServDataPathStart OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This selects the first Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServAlgDropEntry

diffServQEntry

A value of zeroDotZero in this attribute indicates that no Differentiated Services treatment is performed on traffic of this data path. A pointer with the value zeroDotZero normally terminates a functional data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServDataPathEntry 2 }

diffServDataPathStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServDataPathEntry 3 }

diffServDataPathStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

```

    "The status of this conceptual row. All writable objects in this
    row may be modified at any time."
 ::= { diffServDataPathEntry 4 }

--
-- Classifiers
--

diffServClassifier OBJECT IDENTIFIER ::= { diffServMIBObjects 2 }

--

-- Classifier Table
--
-- The Classifier Table allows multiple classifier elements, of same or
-- different types, to be used together. A classifier must completely
-- classify all packets presented to it. This means that all traffic
-- presented to a classifier must match at least one classifier element
-- within the classifier, with the classifier element parameters
--
-- specified by a filter.

-- If there is ambiguity between classifier elements of different
-- classifier, classifier linkage order indicates their precedence; the
-- first classifier in the link is applied to the traffic first.

-- Entries in the classifier element table serves as the anchor for
-- each classification pattern, defined in filter table entries. Each
-- classifier element table entry also specifies the subsequent
-- downstream Differentiated Services Functional Data Path Element when
-- the classification pattern is satisfied. Each entry in the
-- classifier element table describes one branch of the fan-out
-- characteristic of a classifier indicated in the Informal
-- Differentiated Services Model section 4.1. A classifier is composed
-- of one or more classifier elements.

diffServClfrNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains an unused value for diffServClfrId,
    or a
        zero to indicate that none exist."
 ::= { diffServClassifier 1 }

```

#### diffServClfrTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"This table enumerates all the diffserv classifier functional data path elements of this device. The actual classification definitions are defined in diffServClfrElementTable entries belonging to each classifier.

An entry in this table, pointed to by a RowPointer specifying an instance of diffServClfrStatus, is frequently used as the name for a set of classifier elements, which all use the index diffServClfrId. Per the semantics of the classifier element table, these entries constitute one or more unordered sets of tests which may be simultaneously applied to a message to

classify it.

The primary function of this table is to ensure that the value of diffServClfrId

is unique before attempting to use it in creating

a diffServClfrElementEntry. Therefore, the diffServClfrEntry must be created on the same SET as the diffServClfrElementEntry, or before the diffServClfrElementEntry is created."

::= { diffServClassifier 2 }

#### diffServClfrEntry OBJECT-TYPE

SYNTAX DiffServClfrEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An entry in the classifier table describes a single classifier.

All classifier elements belonging to the same classifier use the classifier's diffServClfrId as part of their index."

INDEX { diffServClfrId }

::= { diffServClfrTable 1 }

```
DiffServClfrEntry ::= SEQUENCE {  
    diffServClfrId      IndexInteger,  
    diffServClfrStorage StorageType,  
    diffServClfrStatus RowStatus  
}
```

#### diffServClfrId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the classifier entries. Managers should obtain new values for row creation in this table by reading diffServClfrNextFree."

::= { diffServClfrEntry 1 }

diffServClfrStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServClfrEntry 2 }

diffServClfrStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServClfrEntry 3 }

--

-- Classifier Element Table

--

diffServClfrElementNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServClfrElementId, or a zero to indicate that none exist."

::= { diffServClassifier 3 }

diffServClfrElementTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServClfrElementEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The classifier element table enumerates the relationship between classification patterns and subsequent downstream Differentiated Services Functional Data Path elements.

diffServClfrElementSpecific points to a filter that specifies the classification parameters. A classifier may use filter tables of different types together.

One example of a filter table defined in this MIB is

diffServMultiFieldClfrTable, for

IP Multi-Field Classifiers

(MFCs). Such an entry might identify anything from a single micro-flow (an identifiable sub-session packet stream directed from one sending transport to the receiving transport or transports), or aggregates of those such as the traffic from a host, traffic for an application, or traffic between two hosts using an application and a given DSCP. The standard Behavior Aggregate used in the Differentiated Services Architecture is encoded as a degenerate case of such an aggregate - the traffic using a particular DSCP value.

Filter tables for other filter types may be defined elsewhere."

::= { diffServClassifier 4 }

diffServClfrElementEntry OBJECT-TYPE

SYNTAX DiffServClfrElementEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the classifier element table describes a single element of the classifier."

INDEX { diffServClfrId,

diffServClfrElementId }

::= { diffServClfrElementTable 1 }

DiffServClfrElementEntry ::= SEQUENCE {

diffServClfrElementId IndexInteger,

diffServClfrElementPrecedence Unsigned32,

diffServClfrElementNext RowPointer,

diffServClfrElementSpecific RowPointer,

diffServClfrElementStorage StorageType,

diffServClfrElementStatus RowStatus

}

diffServClfrElementId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Classifier Element entries.

Managers obtain new values for row creation in this table by reading diffServClfrElementNextFree."

::= { diffServClfrElementEntry 1 }

diffServClfrElementPrecedence OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The relative order in which classifier elements are applied: higher numbers

represent classifier element with higher

precedence. Classifier elements with the same order must be unambiguous i.e. they must define non-overlapping patterns, and are considered to be applied simultaneously to the traffic stream. Classifier elements with different order may overlap in their filters: the classifier element with the highest order that matches is taken.

On a given interface, there must be a complete classifier in place at all times in the ingress direction. This means one or more filters must match any possible pattern. There is no such

requirement in the egress direction."

::= { diffServClfrElementEntry 2 }

diffServClfrElementNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This attribute provides one branch of the fan-out functionality of a classifier described in the Informal Differentiated Services

Model section 4.1.

This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This

RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry
- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
::= { diffServClfrElementEntry 3 }
```

#### diffServClfrElementSpecific OBJECT-TYPE

SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current

#### DESCRIPTION

"A pointer to a valid entry in another table, filter table, that describes the applicable classification parameters, e.g. an entry in diffServMultiFieldClfrTable.

The value zeroDotZero is interpreted to match anything not matched by another classifier element - only one such entry may exist for each classifier.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the element is ignored."

```
::= { diffServClfrElementEntry 4 }
```

#### diffServClfrElementStorage OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current

#### DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."



```

DEFVAL
{ nonVolatile }
 ::= { diffServClfrElementEntry 5 }

diffServClfrElementStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The status of this conceptual row. All writable objects in this
        row may be modified at any time. Setting this variable to
        'destroy' when the MIB contains one or more RowPointers pointing
        to it results in destruction being delayed until the row is no
        longer used."
    ::= { diffServClfrElementEntry 6 }

--
-- IP Multi-field Classification Table
--
-- Classification based on six different fields in the IP header.
-- Functional Data Paths may share definitions by using the same entry.
--

diffServMultiFieldClfrNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains an unused value for
        diffServMultiFieldClfrId, or a zero to indicate that none exist."
    ::= {
diffServClassifier 5 }

diffServMultiFieldClfrTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DiffServMultiFieldClfrEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table of IP Multi-field Classifier filter entries that a

        system may use to identify IP traffic."
    ::= { diffServClassifier 6 }

diffServMultiFieldClfrEntry OBJECT-TYPE
    SYNTAX      DiffServMultiFieldClfrEntry
    MAX-ACCESS  not-accessible

```

STATUS current

DESCRIPTION

"An IP Multi-field Classifier entry describes a single filter."

INDEX { diffServMultiFieldClfrId }

::= { diffServMultiFieldClfrTable 1 }

```
DiffServMultiFieldClfrEntry ::= SEQUENCE {
    diffServMultiFieldClfrId      IndexInteger,
    diffServMultiFieldClfrAddrType  InetAddressType,
    diffServMultiFieldClfrDstAddr   InetAddress,
    diffServMultiFieldClfrDstPrefixLength  InetAddressPrefixLength,
    diffServMultiFieldClfrSrcAddr   InetAddress,
    diffServMultiFieldClfrSrcPrefixLength
    InetAddressPrefixLength,
    diffServMultiFieldClfrDscp      DscpOrAny,
    diffServMultiFieldClfrFlowId    Unsigned32,
    diffServMultiFieldClfrProtocol  Unsigned32,
    diffServMultiFieldClfrDstL4PortMin  InetPortNumber,
    diffServMultiFieldClfrDstL4PortMax  InetPortNumber,
    diffServMultiFieldClfrSrcL4PortMin  InetPortNumber,
    diffServMultiFieldClfrSrcL4PortMax  InetPortNumber,
    diffServMultiFieldClfrStorage     StorageType,
    diffServMultiFieldClfrStatus      RowStatus
}
```

diffServMultiFieldClfrId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the MultiField Classifier filter entries. Managers obtain new values for row creation in this table by reading diffServMultiFieldClfrNextFree."

::= { diffServMultiFieldClfrEntry 1 }

diffServMultiFieldClfrAddrType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of IP address used by this classifier entry. While other types of addresses are defined in the InetAddressType

textual convention, and DNS names, a classifier can only look at

packets on the wire. Therefore, this object is limited to IPv4 and IPv6 addresses."

::= { diffServMultiFieldClfrEntry 2 }

#### diffServMultiFieldClfrDstAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The IP address to match against the packet's destination IP address. This may not be a DNS name, but may be an IPv4 or IPv6 prefix. diffServMultiFieldClfrDstPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 3 }

#### diffServMultiFieldClfrDstPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS "bits"

MAX-ACCESS read-create

STATUS

current

#### DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrDstAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 4 }

#### diffServMultiFieldClfrSrcAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The IP address to match against the packet's source IP address. This may not be a DNS name, but may be an IPv4 or IPv6 prefix. diffServMultiFieldClfrSrcPrefixLength indicates the number of bits that are relevant."

::= { diffServMultiFieldClfrEntry 5 }

#### diffServMultiFieldClfrSrcPrefixLength OBJECT-TYPE

SYNTAX InetAddressPrefixLength

UNITS

"bits"

MAX-ACCESS read-create

STATUS current

## DESCRIPTION

"The length of the CIDR Prefix carried in diffServMultiFieldClfrSrcAddr. In IPv4 addresses, a length of 0 indicates a match of any address; a length of 32 indicates a match of a single host address, and a length between 0 and 32 indicates the use of a CIDR Prefix. IPv6 is similar, except that prefix lengths range from 0..128."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 6 }

### diffServMultiFieldClfrDscp OBJECT-TYPE

SYNTAX DscpOrAny

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The value that the DSCP in the packet must have to match this entry. A value of -1 indicates that a specific DSCP value has not been defined and thus all DSCP values are considered a match."

DEFVAL { -1 }

::= { diffServMultiFieldClfrEntry 7 }

### diffServMultiFieldClfrFlowId OBJECT-TYPE

SYNTAX Unsigned32 (0..1048575)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The flow identifier in an IPv6 header."

::= { diffServMultiFieldClfrEntry 8 }

### diffServMultiFieldClfrProtocol OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The IP protocol to match against the IPv4 protocol number or the IPv6 Next-Header number in the packet. A value of 255 means match all. Note the protocol number of 255 is reserved by IANA, and Next-Header number of 0 is used in IPv6."

DEFVAL { 255 }

::= { diffServMultiFieldClfrEntry 9 }

### diffServMultiFieldClfrDstL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 destination port number in the packet must have in order to match this classifier entry."

DEFVAL

{ 0 }

::= { diffServMultiFieldClfrEntry 10 }

diffServMultiFieldClfrDstL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum value that the layer-4 destination port number in the packet must have in order to match this classifier entry.

This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrDstL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 11 }

diffServMultiFieldClfrSrcL4PortMin OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum value that the layer-4 source port number in the packet must have in order to match this classifier entry."

DEFVAL { 0 }

::= { diffServMultiFieldClfrEntry 12 }

diffServMultiFieldClfrSrcL4PortMax OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum value that the layer-4 source port number in the packet must have in order to match this classifier entry. This value must be equal to or greater than the value specified for this entry in diffServMultiFieldClfrSrcL4PortMin."

DEFVAL { 65535 }

::= { diffServMultiFieldClfrEntry 13 }

diffServMultiFieldClfrStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current  
DESCRIPTION  
"The storage type for this conceptual row. Conceptual rows  
having the value 'permanent' need not allow write-access to any  
columnar objects in the row."  
DEFVAL { nonVolatile }  
::= { diffServMultiFieldClfrEntry 14 }

diffServMultiFieldClfrStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The status of this conceptual row. All writable objects  
in this  
row may be modified at any time. Setting this variable to  
'destroy' when the MIB contains one or more RowPointers pointing  
to it results in destruction being delayed until the row is no  
longer used."  
::= { diffServMultiFieldClfrEntry 15 }

--

-- Meters

--

diffServMeter OBJECT IDENTIFIER ::= { diffServMIBObjects 3 }

--

-- This MIB supports a variety of Meters. It includes a specific  
-- definition for Token Bucket Meter, which are but one type of  
-- specification. Other metering parameter sets can be defined in other  
-- MIBs.

-- Multiple meter elements may be logically cascaded using their  
-- diffServMeterSucceedNext and diffServMeterFailNext pointers if  
-- required. One example of this might be for an AF PHB implementation  
-- that uses multiple level conformance meters.

-- Cascading of individual meter elements in the MIB is intended to be  
-- functionally equivalent to multiple level conformance determination  
-- of a packet.

The sequential nature of the representation is merely  
-- a notational convenience for this MIB.

-- srTCM meters (RFC 2697) can be specified using two sets of

-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Information Rate and Committed Burst Size  
-- token-bucket. The second set specifies the Excess Burst Size  
-- token-bucket.

-- trTCM meters (RFC 2698) can be specified using two sets of  
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Information Rate and Committed Burst Size  
-- token-bucket. The second set specifies the Peak Information Rate  
-- and Peak Burst Size token-bucket.

-- tswTCM meters (RFC 2859) can be specified using two sets of  
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies  
-- the Committed Target Rate token-bucket. The second set specifies

-- the Peak Target Rate token-bucket. diffServTBParamInterval in each  
-- token bucket reflects the Average Interval.

--

diffServMeterNextFree

OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMeterId, or a  
zero to indicate that none exist."

::= { diffServMeter 1 }

diffServMeterTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMeterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates specific meters that a system may use to  
police a stream of traffic. The traffic stream to be metered is  
determined by the Differentiated Services Functional Data Path  
Element(s) upstream of the meter i.e. by the object(s) that point  
to each entry in this table. This may include all traffic on an  
interface.

Specific meter details are to be found in table entry referenced  
by diffServMeterSpecific."

::= { diffServMeter 2 }

diffServMeterEntry OBJECT-TYPE

SYNTAX DiffServMeterEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "An entry in the meter table describes a single conformance level  
 of a meter."  
 INDEX { diffServMeterId }  
 ::= { diffServMeterTable 1 }

DiffServMeterEntry ::= SEQUENCE {  
 diffServMeterId IndexInteger,  
 diffServMeterSucceedNext RowPointer,  
 diffServMeterFailNext RowPointer,  
 diffServMeterSpecific RowPointer,  
 diffServMeterStorage StorageType,  
 diffServMeterStatus RowStatus  
 }

diffServMeterId OBJECT-TYPE  
 SYNTAX IndexInteger  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "An index that enumerates the Meter entries. Managers obtain new  
 values for row creation in this table by reading  
 diffServMeterNextFree."  
 ::= { diffServMeterEntry 1 }

diffServMeterSucceedNext OBJECT-TYPE  
 SYNTAX RowPointer  
 MAX-ACCESS read-create  
 STATUS  
 current  
 DESCRIPTION  
 "If the traffic does conform, this selects the next  
 Differentiated Services Functional Data Path element to handle  
 traffic for this data path. This RowPointer should point to an  
 instance of one of:  
 diffServClfrEntry  
 diffServMeterEntry  
 diffServActionEntry  
 diffServAlgDropEntry  
 diffServQEntry

A value of zeroDotZero in this attribute indicates that no



further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL { zeroDotZero }  
::= { diffServMeterEntry  
2 }
```

#### diffServMeterFailNext OBJECT-TYPE

```
SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"If the traffic does not conform, this selects the next Differentiated Services Functional Data Path element to handle traffic for this data path. This RowPointer should point to an instance of one of:

- diffServClfrEntry
- diffServMeterEntry

- diffServActionEntry
- diffServAlgDropEntry
- diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

```
DEFVAL { zeroDotZero }  
::= { diffServMeterEntry 3 }
```

#### diffServMeterSpecific OBJECT-TYPE

```
SYNTAX RowPointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION
```

"This indicates the behavior of the meter by pointing to an entry

containing detailed parameters. Note that entries in that specific table must be managed explicitly.

For example, diffServMeterSpecific may point to an entry in diffServTBParamTable, which contains an instance of a single set of Token Bucket parameters.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the meter always succeeds."

```
::= { diffServMeterEntry 4 }
```

diffServMeterStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The

storage type for this conceptual row. Conceptual rows

having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

```
::= { diffServMeterEntry 5 }
```

diffServMeterStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

```
::= { diffServMeterEntry 6 }
```

--

-- Token Bucket Parameter Table

--

diffServTBParam OBJECT IDENTIFIER ::= { diffServMIBObjects 4 }

-- Each entry in the Token Bucket Parameter Table parameterize a single

-- token bucket. Multiple token buckets can be used together to

-- parameterize multiple levels of conformance.

-- Note that  
an entry in the Token Bucket Parameter Table can be shared  
-- by multiple diffServMeterTable entries.  
--

diffServTBParamNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServTBParamId, or a zero to indicate that none exist."

::= { diffServTBParam 1 }

diffServTBParamTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServTBParamEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates a single set of token bucket meter parameters that a system may use to police a stream of traffic. Such meters are modeled here as having a single rate and a single burst size. Multiple entries are used when multiple rates/burst sizes are needed."

::= { diffServTBParam 2 }

diffServTBParamEntry OBJECT-TYPE

SYNTAX DiffServTBParamEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"An entry that describes a single set of token bucket parameters."

INDEX { diffServTBParamId }

::= { diffServTBParamTable 1 }

DiffServTBParamEntry ::= SEQUENCE {

diffServTBParamId IndexInteger,

diffServTBParamType AutonomousType,

diffServTBParamRate Unsigned32,

diffServTBParamBurstSize BurstSize,

diffServTBParamInterval Unsigned32,

diffServTBParamStorage StorageType,

```
diffServTBParamStatus      RowStatus
}
```

diffServTBParamId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Token Bucket Parameter entries.

Managers obtain new values for row creation in this table by

reading diffServTBParamNextFree."

::= { diffServTBParamEntry 1 }

diffServTBParamType OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The Metering algorithm associated with the Token Bucket parameters. zeroDotZero indicates this is unknown.

Standard values for generic algorithms:

diffServTBParamSimpleTokenBucket, diffServTBParamAvgRate,

diffServTBParamSrTCMBlind, diffServTBParamSrTCMAware,

diffServTBParamTrTCMBlind, diffServTBParamTrTCMAware, and

diffServTBParamTswTCM are specified in this MIB as OBJECT-

IDENTITYs; additional values may be further specified in other

MIBs."

::= { diffServTBParamEntry 2 }

diffServTBParamRate OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The token-bucket rate, in kilobits per second (kbps). This

attribute is used for:

1. CIR in RFC 2697 for srTCM

2. CIR and PIR in RFC 2698 for trTCM

3. CTR and PTR in RFC 2859 for TSWTCM

4. AverageRate in RFC 3290."

::= { diffServTBParamEntry 3 }

diffServTBParamBurstSize OBJECT-TYPE

SYNTAX BurstSize

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of bytes in a single transmission burst. This attribute is used for:

1. CBS and EBS in RFC 2697 for srTCM
2. CBS and PBS in RFC 2698 for trTCM
3. Burst Size in RFC 3290."

::= { diffServTBParamEntry 4 }

diffServTBParamInterval OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "microseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The time interval used with the token bucket. For:

1. Average Rate Meter, the Informal Differentiated Services Model section 5.2.1, - Delta.
2. Simple Token Bucket Meter, the Informal Differentiated Services Model section 5.1, - time interval t.
3. RFC 2859 TSWTCM, - AVG\_INTERVAL.
4. RFC 2697 srTCM, RFC 2698 trTCM, - token bucket update time interval."

::= { diffServTBParamEntry 5 }

diffServTBParamStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServTBParamEntry 6 }

diffServTBParamStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

```

"The status of this conceptual row. All writable objects in this
row may be modified at any time. Setting this variable to
'destroy' when the MIB contains one or more RowPointers pointing
to it results in destruction being delayed until the row is no
longer used."
::= { diffServTBParamEntry 7 }

--
-- OIDs for diffServTBParamType
definitions.
--

diffServTBMeters OBJECT IDENTIFIER ::= { diffServMIBAdmin 1 }

diffServTBParamSimpleTokenBucket OBJECT-IDENTITY
STATUS    current
DESCRIPTION
    "Two Parameter Token Bucket Meter as described in the Informal
    Differentiated Services Model section 5.2.3."
::= { diffServTBMeters 1 }

diffServTBParamAvgRate OBJECT-IDENTITY
STATUS    current
DESCRIPTION
    "Average Rate Meter as described in the Informal Differentiated
    Services Model section 5.2.1."
::= { diffServTBMeters 2 }

diffServTBParamSrTCMBlind OBJECT-IDENTITY
STATUS    current
DESCRIPTION
    "Single Rate Three Color Marker Metering as defined by RFC 2697,
    in the `Color Blind' mode as described by the RFC."
REFERENCE
    "RFC 2697"
::= { diffServTBMeters 3 }

diffServTBParamSrTCMAware OBJECT-IDENTITY
STATUS    current
DESCRIPTION
    "Single Rate Three Color Marker Metering as defined by RFC 2697,
    in the
    `Color Aware' mode as described by the RFC."
REFERENCE
    "RFC 2697"

```

::= { diffServTBMeters 4 }

diffServTBParamTrTCMBlind OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Two Rate Three Color Marker Metering as defined by RFC 2698, in the `Color Blind' mode as described by the RFC."

REFERENCE

"RFC 2698"

::= { diffServTBMeters 5 }

diffServTBParamTrTCMAware OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Two Rate Three Color Marker Metering as defined by RFC 2698, in the `Color Aware' mode as described by the RFC."

REFERENCE

"RFC 2698"

::= { diffServTBMeters 6 }

diffServTBParamTswTCM OBJECT-IDENTITY

STATUS current

DESCRIPTION

"Time Sliding Window Three Color Marker Metering as defined by RFC 2859."

REFERENCE

"RFC 2859"

::= { diffServTBMeters 7 }

--

-- Actions

--

diffServAction OBJECT IDENTIFIER ::= { diffServMIBObjects 5 }

--

-- The Action

Table allows enumeration of the different types of actions to be applied to a traffic flow.

--

diffServActionNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServActionId, or a zero to indicate that none exist."

::= { diffServAction 1 }

diffServActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Action Table enumerates actions that can be performed to a stream of traffic. Multiple actions can be concatenated. For example, traffic exiting from a meter may be counted, marked, and potentially dropped before entering a queue.

Specific actions are indicated by diffServActionSpecific which points to an entry of a specific action type parameterizing the action in detail."

::= { diffServAction

2 }

diffServActionEntry OBJECT-TYPE

SYNTAX DiffServActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each entry in the action table allows description of one specific action to be applied to traffic."

INDEX { diffServActionId }

::= { diffServActionTable 1 }

DiffServActionEntry ::= SEQUENCE {

diffServActionId IndexInteger,

diffServActionInterface InterfaceIndexOrZero,

diffServActionNext RowPointer,

diffServActionSpecific RowPointer,

diffServActionStorage StorageType,

diffServActionStatus RowStatus

}

diffServActionId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Action entries. Managers obtain new values for row creation in this table by reading diffServActionNextFree."

::= { diffServActionEntry 1 }



diffServActionInterface

OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The interface index (value of ifIndex) that this action occurs on. This may be derived from the diffServDataPathStartEntry's index by extension through the various RowPointers. However, as this may be difficult for a network management station, it is placed here as well. If this is indeterminate, the value is zero.

This is of especial relevance when reporting the counters which may apply to traffic crossing an interface:

diffServCountActOctets,  
diffServCountActPkts,  
diffServAlgDropOctets,  
diffServAlgDropPkts,  
diffServAlgRandomDropOctets, and  
diffServAlgRandomDropPkts.

It is also especially relevant to the queue and scheduler which may be subsequently applied."

::= { diffServActionEntry 2 }

diffServActionNext

OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry  
diffServMeterEntry  
diffServActionEntry  
diffServAlgDropEntry  
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the

last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL

{ zeroDotZero }

::= { diffServActionEntry 3 }

diffServActionSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A pointer to an object instance providing additional information for the type of action indicated by this action table entry.

For the standard actions defined by this MIB module, this should point to either a diffServDscpMarkActEntry or a diffServCountActEntry. For other actions, it may point to an object instance defined in some other MIB.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the Meter should be treated as if it were not present. This may lead to incorrect policy behavior."

::= { diffServActionEntry 4 }

diffServActionStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServActionEntry 5 }

diffServActionStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServActionEntry 6 }

-- DSCP Mark Action Table

--

-- Rows of this table are pointed to by diffServActionSpecific to

-- provide detailed parameters specific to the DSCP Mark action.

--

-- A single entry in this table can be shared by multiple

-- diffServActionTable entries.

--

diffServDscpMarkActTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServDscpMarkActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table enumerates specific DSCPs used for marking or remarking the DSCP field of IP packets. The entries of this table may be referenced by a diffServActionSpecific attribute."

::= { diffServAction 3 }

diffServDscpMarkActEntry OBJECT-TYPE

SYNTAX DiffServDscpMarkActEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the DSCP mark action table that describes a single DSCP used for marking."

INDEX { diffServDscpMarkActDscp }

::= { diffServDscpMarkActTable 1 }

DiffServDscpMarkActEntry ::= SEQUENCE {

diffServDscpMarkActDscp Dscp

}

diffServDscpMarkActDscp OBJECT-TYPE

SYNTAX Dscp

MAX-ACCESS read-only

```

STATUS    current
DESCRIPTION
    "The DSCP that this Action will store into
the DSCP field of the
    subject. It is quite possible that the only packets subject to
    this Action are already marked with this DSCP. Note also that
    Differentiated Services processing may result in packet being
    marked on both ingress to a network and on egress from it, and
    that ingress and egress can occur in the same router."
 ::= { diffServDscpMarkActEntry 1 }

--
-- Count Action Table
--
-- Because the MIB structure allows multiple cascading
-- diffServActionEntry be used to describe multiple actions for a data
-- path, the counter became an optional action type. In normal
-- implementation, either a data path has counters or it does not, as
-- opposed to being configurable. The management entity may choose to

-- read the counter or not. Hence it is recommended for implementation
-- that have counters to always configure the count action as the first
-- of multiple actions.
--

diffServCountActNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object contains an unused value for
        diffServCountActId, or a zero to indicate that none exist."
    ::= { diffServAction 4 }

diffServCountActTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DiffServCountActEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains counters for all the traffic passing through
        an action element."
    ::= { diffServAction 5 }

diffServCountActEntry OBJECT-TYPE
    SYNTAX      DiffServCountActEntry
    MAX-ACCESS  not-accessible

```

STATUS current  
DESCRIPTION  
"An entry in the count action table describes a single set of traffic counters."  
INDEX { diffServCountActId }  
::= { diffServCountActTable 1 }

DiffServCountActEntry ::= SEQUENCE {  
diffServCountActId IndexInteger,  
diffServCountActOctets Counter64,  
diffServCountActPkts Counter64,  
  
diffServCountActStorage StorageType,  
diffServCountActStatus RowStatus  
}

diffServCountActId OBJECT-TYPE  
SYNTAX IndexInteger  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"An index that enumerates the Count Action entries. Managers obtain new values for row creation in this table by reading

diffServCountActNextFree."  
::= { diffServCountActEntry 1 }

diffServCountActOctets OBJECT-TYPE  
SYNTAX Counter64  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of octets at the Action data path element.  
  
Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."  
::= { diffServCountActEntry 2 }

diffServCountActPkts OBJECT-TYPE  
SYNTAX Counter64  
MAX-ACCESS read-only  
STATUS  
current  
DESCRIPTION

"The number of packets at the Action data path element.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServCountActEntry 3 }

diffServCountActStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServCountActEntry 4 }

diffServCountActStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing

to it results in destruction being delayed until the row is no longer used."

::= { diffServCountActEntry 5 }

--

-- Algorithmic Drop Table

--

diffServAlgDrop OBJECT IDENTIFIER ::= { diffServMIBObjects 6 }

diffServAlgDropNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServAlgDropId, or a zero to indicate that none exist."

::= { diffServAlgDrop 1 }

diffServAlgDropTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServAlgDropEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The algorithmic drop table contains entries describing an element that drops packets according to some algorithm."

::= { diffServAlgDrop 2 }

diffServAlgDropEntry OBJECT-TYPE

SYNTAX DiffServAlgDropEntry

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"An entry describes a process that drops packets according to some algorithm. Further details of the algorithm type are to be found in diffServAlgDropType and with more detail parameter entry pointed to by diffServAlgDropSpecific when necessary."

INDEX { diffServAlgDropId }

::= { diffServAlgDropTable 1 }

DiffServAlgDropEntry ::= SEQUENCE {

diffServAlgDropId IndexInteger,

diffServAlgDropType INTEGER,

diffServAlgDropNext RowPointer,

diffServAlgDropQMeasure RowPointer,

diffServAlgDropQThreshold Unsigned32,

diffServAlgDropSpecific RowPointer,

diffServAlgDropOctets Counter64,

diffServAlgDropPkts Counter64,

diffServAlgRandomDropOctets Counter64,

diffServAlgRandomDropPkts Counter64,

diffServAlgDropStorage StorageType,

diffServAlgDropStatus

RowStatus

}

diffServAlgDropId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Algorithmic Dropper entries."

Managers obtain new values for row creation in this table by reading diffServAlgDropNextFree."  
 ::= { diffServAlgDropEntry 1 }

diffServAlgDropType OBJECT-TYPE

```
SYNTAX    INTEGER {  
    other(1),  
    tailDrop(2),  
    headDrop(3),  
    randomDrop(4),  
    alwaysDrop(5)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of algorithm used by this dropper. The value other(1) requires further specification in some other MIB module.

In the tailDrop(2) algorithm, diffServAlgDropQThreshold represents the maximum depth of the queue, pointed to by diffServAlgDropQMeasure, beyond which all newly arriving packets

will be dropped.

In the headDrop(3) algorithm, if a packet arrives when the current depth of the queue, pointed to by diffServAlgDropQMeasure, is at diffServAlgDropQThreshold, packets currently at the head of the queue are dropped to make room for the new packet to be enqueued at the tail of the queue.

In the randomDrop(4) algorithm, on packet arrival, an Active Queue Management algorithm is executed which may randomly drop a packet. This algorithm may be proprietary, and it may drop either the arriving packet or another packet in the queue. diffServAlgDropSpecific points to a diffServRandomDropEntry that describes the algorithm. For this algorithm,

diffServAlgDropQThreshold is understood to be the absolute maximum size of the queue and additional parameters are described in diffServRandomDropTable.

The alwaysDrop(5) algorithm is as its name specifies; always drop. In

this case, the other configuration values in this Entry

are not meaningful; There is no useful 'next' processing step, there is no queue, and parameters describing the queue are not



useful. Therefore, diffServAlgDropNext, diffServAlgDropMeasure, and diffServAlgDropSpecific are all zeroDotZero."  
 ::= { diffServAlgDropEntry 2 }

#### diffServAlgDropNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry

diffServMeterEntry

diffServActionEntry

diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

When diffServAlgDropType is alwaysDrop(5), this object is ignored.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 3 }

#### diffServAlgDropQMeasure OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Points to an entry in the diffServQTable to indicate the queue that a drop algorithm is to monitor when deciding whether to drop a packet. If the row pointed to does not exist, the algorithmic dropper element is considered inactive.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 4 }

diffServAlgDropQThreshold OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A threshold on the depth in bytes of the queue being measured at which a trigger is generated to the dropping algorithm, unless diffServAlgDropType is alwaysDrop(5) where this object is ignored.

For the tailDrop(2) or headDrop(3) algorithms, this represents the depth of the queue, pointed to by diffServAlgDropQMeasure, at which the drop action will take place. Other algorithms will need to define their own semantics for this threshold."

::= { diffServAlgDropEntry 5 }

diffServAlgDropSpecific OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to a table entry that provides further detail regarding a drop algorithm.

Entries with diffServAlgDropType equal to other(1) may have this point to a table defined in another MIB module.

Entries with diffServAlgDropType equal to randomDrop(4) must have this point to an entry in diffServRandomDropTable.

For all other algorithms specified in this MIB, this should take the value zeroDotZero.

The diffServAlgDropType is authoritative for the type of the drop algorithm and the specific parameters for the drop algorithm needs to be evaluated based on the diffServAlgDropType.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 6 }

diffServAlgDropOctets OBJECT-TYPE

SYNTAX

Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 7 }

diffServAlgDropPkts OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 8 }

diffServAlgRandomDropOctets OBJECT-TYPE

SYNTAX Counter64

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."

::= { diffServAlgDropEntry 9 }

diffServAlgRandomDropPkts OBJECT-TYPE

SYNTAX Counter64  
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime

on the

relevant interface."

::= { diffServAlgDropEntry 10 }

diffServAlgDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServAlgDropEntry 11 }

diffServAlgDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServAlgDropEntry 12 }

--

-- Random Drop Table

--

diffServRandomDropNextFree OBJECT-TYPE

SYNTAX

IndexIntegerNextFree  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object contains an unused value for diffServRandomDropId,  
or a zero to indicate that none exist."  
::= { diffServAlgDrop 3 }

diffServRandomDropTable OBJECT-TYPE  
SYNTAX SEQUENCE OF DiffServRandomDropEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The random drop table contains entries describing a process that  
drops packets randomly. Entries in this table are pointed to by  
diffServAlgDropSpecific."  
::= { diffServAlgDrop 4 }

diffServRandomDropEntry OBJECT-TYPE  
SYNTAX DiffServRandomDropEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"An entry describes a process that drops packets according to a  
random algorithm."  
INDEX { diffServRandomDropId }  
::= { diffServRandomDropTable 1 }

DiffServRandomDropEntry ::= SEQUENCE {  
diffServRandomDropId  
    IndexInteger,  
diffServRandomDropMinThreshBytes Unsigned32,  
diffServRandomDropMinThreshPkts Unsigned32,  
diffServRandomDropMaxThreshBytes Unsigned32,  
diffServRandomDropMaxThreshPkts Unsigned32,  
diffServRandomDropProbMax Unsigned32,  
diffServRandomDropWeight Unsigned32,  
diffServRandomDropSamplingRate Unsigned32,  
diffServRandomDropStorage StorageType,  
diffServRandomDropStatus RowStatus  
}

diffServRandomDropId OBJECT-TYPE  
SYNTAX IndexInteger  
MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Random Drop entries. Managers obtain new values for row creation in this table by reading diffServRandomDropNextFree."

::= { diffServRandomDropEntry 1 }

diffServRandomDropMinThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth in bytes, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshPkts."

::= { diffServRandomDropEntry 2 }

diffServRandomDropMinThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth in packets, beyond which traffic has a non-zero probability of being dropped. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMinThreshBytes."

::= { diffServRandomDropEntry 3 }

diffServRandomDropMaxThreshBytes OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshPkts."

::= { diffServRandomDropEntry 4 }

diffServRandomDropMaxThreshPkts OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "packets"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The average queue depth beyond which traffic has a probability indicated by diffServRandomDropProbMax of being dropped or marked. Note that this differs from the physical queue limit, which is stored in diffServAlgDropQThreshold. Changes in this variable may or may not be reflected in the reported value of diffServRandomDropMaxThreshBytes."

::= { diffServRandomDropEntry 5 }

diffServRandomDropProbMax

OBJECT-TYPE

SYNTAX Unsigned32 (0..1000)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The worst case random drop probability, expressed in drops per thousand packets.

For example, if in the worst case every arriving packet may be dropped (100%) for a period, this has the value 1000.

Alternatively, if in the worst case only one percent (1%) of traffic may be dropped, it has the value 10."

::= { diffServRandomDropEntry 6 }

diffServRandomDropWeight OBJECT-TYPE

SYNTAX Unsigned32 (0..65536)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The weighting of past history in affecting the Exponentially Weighted Moving Average function that calculates the current average queue depth. The equation uses diffServRandomDropWeight/65536 as the coefficient for the new sample in the equation, and (65536 - diffServRandomDropWeight)/65536

as the coefficient of the old value.

Implementations may limit the values of diffServRandomDropWeight

to a subset of the possible range of values, such as powers of two. Doing this would facilitate implementation of the Exponentially Weighted Moving Average using shift instructions or registers."

::= { diffServRandomDropEntry 7 }

diffServRandomDropSamplingRate OBJECT-TYPE

SYNTAX Unsigned32 (0..1000000)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of times per second the queue is sampled for queue average calculation. A value of zero is used to mean that the queue is sampled approximately each time a packet is enqueued (or dequeued)."

::= { diffServRandomDropEntry 8 }

diffServRandomDropStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServRandomDropEntry 9 }

diffServRandomDropStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServRandomDropEntry 10 }

--

-- Queue Table

--



diffServQueue OBJECT IDENTIFIER ::= { diffServMIBObjects 7 }

--  
-- An entry of diffServQTable represents a FIFO queue Differentiated  
-- Services Functional Data Path element as described in the Informal  
-- Differentiated Services Model section 7.1.1. Note that the  
-- specification of scheduling  
parameters for a queue as part of the  
-- input to a scheduler functional data path element as described in  
-- the Informal Differentiated Services Model section 7.1.2. This  
-- allows building of hierarchical queuing/scheduling. A queue  
-- therefore has these attributes:  
--  
-- 1. Which scheduler will service this queue, diffServQNext.  
-- 2. How the scheduler will service this queue, with respect  
-- to all the other queues the same scheduler needs to service,  
-- diffServQMinRate.  
--  
-- Note that upstream Differentiated Services Functional Data Path  
-- elements may point to a shared diffServQTable entry as described  
-- in the Informal Differentiated Services Model section 7.1.1.  
--

diffServQNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServQId, or a zero  
to indicate that none exist."

::= { diffServQueue 1 }

diffServQTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServQEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Queue Table enumerates the individual queues. Note that the  
MIB models queuing systems as composed of individual queues, one  
per class of traffic, even though they may in fact be structured  
as classes of traffic scheduled using a common calendar queue, or  
in other ways."

::= { diffServQueue 2 }

diffServQEntry OBJECT-TYPE

SYNTAX DiffServQEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Queue Table describes a single queue or class of traffic."

INDEX { diffServQId }

::= { diffServQTable 1 }

DiffServQEntry ::= SEQUENCE {

diffServQId IndexInteger,

diffServQNext RowPointer,

diffServQMinRate RowPointer,

diffServQMaxRate RowPointer,

diffServQStorage

StorageType,

diffServQStatus RowStatus

}

diffServQId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Queue entries. Managers obtain new values for row creation in this table by reading diffServQNextFree."

::= { diffServQEntry 1 }

diffServQNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This selects the next Differentiated Services Scheduler. The RowPointer must point to a diffServSchedulerEntry.

A value of zeroDotZero in this attribute indicates an incomplete diffServQEntry instance. In such a case, the entry has no operational effect, since it has no parameters to give it meaning.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 2 }

#### diffServQMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This RowPointer indicates the diffServMinRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the minimum rate and priority is unspecified.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 3 }

#### diffServQMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This RowPointer indicates the diffServMaxRateEntry that the scheduler, pointed to by diffServQNext, should use to service this queue.

If the row pointed to is zeroDotZero, the maximum rate is the line speed of the interface.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServQEntry 4 }

#### diffServQStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }  
::= { diffServQEntry 5 }

diffServQStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServQEntry 6 }

--

-- Scheduler Table

--

diffServScheduler OBJECT IDENTIFIER ::= { diffServMIBObjects 8 }

--

-- A Scheduler Entry represents a packet scheduler, such as a priority scheduler or a WFQ scheduler. It provides flexibility for multiple scheduling algorithms, each servicing multiple queues, to be used on the same logical/physical interface.

--

-- Note that upstream queues or schedulers specify several of the scheduler's parameters. These must be properly specified if the scheduler is to behave as expected.

--

-- The diffServSchedulerMaxRate attribute specifies the parameters when a scheduler's output is sent to another scheduler. This is used in building hierarchical queues or schedulers.

--

-- More discussion of the scheduler functional data path element is in the Informal Differentiated Services Model section 7.1.2.

--

diffServSchedulerNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServSchedulerId, or a zero to indicate that none exist."

::= { diffServScheduler 1 }

diffServSchedulerTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Scheduler Table enumerates packet schedulers. Multiple scheduling algorithms can be used on a given data path, with each algorithm described by one diffServSchedulerEntry."

::= { diffServScheduler 2 }

diffServSchedulerEntry OBJECT-TYPE

SYNTAX DiffServSchedulerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Scheduler Table describing a single instance of a scheduling algorithm."

INDEX { diffServSchedulerId }

::= { diffServSchedulerTable 1 }

DiffServSchedulerEntry ::= SEQUENCE {

diffServSchedulerId IndexInteger,  
diffServSchedulerNext RowPointer,  
diffServSchedulerMethod AutonomousType,  
diffServSchedulerMinRate RowPointer,  
diffServSchedulerMaxRate RowPointer,  
diffServSchedulerStorage StorageType,  
diffServSchedulerStatus RowStatus

}

diffServSchedulerId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Scheduler entries. Managers obtain

new values for row creation in this table by reading  
diffServSchedulerNextFree."  
::= { diffServSchedulerEntry 1 }

#### diffServSchedulerNext OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This normally is null (zeroDotZero), or points to a diffServSchedulerEntry or a diffServQEntry.

However, this RowPointer may also point to an instance of:

diffServClfrEntry,  
diffServMeterEntry,  
diffServActionEntry,  
diffServAlgDropEntry.

It would point another diffServSchedulerEntry when implementing multiple scheduler methods for the same data path, such as having one set of queues scheduled by WRR and that group participating in a priority scheduling system in which other queues compete with it in that way. It might also point to a second scheduler in a hierarchical scheduling system.

If the row pointed to is zeroDotZero, no further Differentiated Services treatment is performed on traffic of this data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }  
::= { diffServSchedulerEntry 2 }

#### diffServSchedulerMethod OBJECT-TYPE

SYNTAX AutonomousType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The scheduling algorithm used by this Scheduler. zeroDotZero indicates that this is unknown. Standard values for generic algorithms: diffServSchedulerPriority, diffServSchedulerWRR, and diffServSchedulerWFQ are specified in this MIB; additional values

may be further specified in other MIBs."

::= { diffServSchedulerEntry 3 }

#### diffServSchedulerMinRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This RowPointer indicates the entry in diffServMinRateTable which indicates the priority or minimum output rate from this scheduler. This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no minimum rate or priority is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }

::= { diffServSchedulerEntry 4 }

#### diffServSchedulerMaxRate OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This RowPointer indicates the entry in diffServMaxRateTable which indicates the maximum output rate from this scheduler.

When

more than one maximum rate applies (eg, when a multi-rate shaper is in view), it points to the first of those rate entries.

This attribute is used only when there is more than one level of scheduler.

When it has the value zeroDotZero, it indicates that no maximum rate is imposed.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

DEFVAL { zeroDotZero }

::= { diffServSchedulerEntry 5 }

diffServSchedulerStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::=

{ diffServSchedulerEntry 6 }

diffServSchedulerStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServSchedulerEntry 7 }

--

-- OIDs for diffServTBParamType definitions.

--

diffServSchedulers OBJECT IDENTIFIER ::= { diffServMIBAdmin 2 }

diffServSchedulerPriority OBJECT-IDENTITY

STATUS current

DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Priority scheduling method. This is defined as an algorithm in which the presence of data in a queue or set of queues absolutely precludes dequeue from another queue or set of queues of lower priority.

Note

that attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 1 }



#### diffServSchedulerWRR OBJECT-IDENTITY

STATUS current

##### DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted Round Robin scheduling method, defined as any algorithm in which a set of queues are visited in a fixed order, and varying amounts of traffic are removed from each queue in turn to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 2 }

#### diffServSchedulerWFQ OBJECT-IDENTITY

STATUS current

##### DESCRIPTION

"For use with diffServSchedulerMethod to indicate the Weighted Fair Queuing scheduling method, defined as any algorithm in which a set of queues are conceptually visited in some order, to implement an average output rate by class. Notice attributes from diffServMinRateEntry of the queues/schedulers feeding this scheduler are used when determining the next packet to schedule."

::= { diffServSchedulers 3 }

--

-- Minimum Rate Parameters Table

--

-- The parameters used by a scheduler for its inputs or outputs are  
-- maintained separately from the Queue or Scheduler table entries for  
-- reusability reasons and so that they may be used by both queues and  
-- schedulers. This follows the approach for separation of data path  
-- elements from parameterization that is used throughout this MIB.  
-- Use of these Minimum Rate Parameter Table entries by Queues and  
-- Schedulers allows the modeling of hierarchical scheduling systems.

--

-- Specifically, a Scheduler has one or more inputs and one output.  
-- Any queue feeding a scheduler, or any scheduler which feeds a second  
-- scheduler,  
-- might specify a minimum transfer rate by pointing to an  
-- Minimum Rate Parameter Table entry.

--

-- The diffServMinRatePriority/Abs/Rel attributes are used as  
-- parameters to the work-conserving portion of a scheduler:  
-- "work-conserving" implies that the scheduler can continue to emit  
-- data as long as there is data available at its input(s). This has

-- the effect of guaranteeing a certain priority relative to other  
-- scheduler inputs and/or a certain minimum proportion of the  
-- available output bandwidth. Properly configured, this means a  
-- certain minimum rate, which may be exceeded should traffic be  
-- available should there be spare bandwidth after all other classes  
-- have had opportunities to consume their own minimum rates.  
--

#### diffServMinRateNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"This object contains an unused value for diffServMinRateId, or a zero to indicate that none exist."

::= { diffServScheduler 3 }

#### diffServMinRateTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The Minimum Rate Parameters Table enumerates individual sets of scheduling parameter that can be used/reused by Queues and Schedulers."

::= { diffServScheduler 4 }

#### diffServMinRateEntry OBJECT-TYPE

SYNTAX DiffServMinRateEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An entry in the Minimum Rate Parameters Table describes a single set of scheduling parameters for use by one or more queues or schedulers."

INDEX { diffServMinRateId }

::= { diffServMinRateTable 1 }

DiffServMinRateEntry ::= SEQUENCE {

diffServMinRateId IndexInteger,

diffServMinRatePriority Unsigned32,

diffServMinRateAbsolute Unsigned32,

diffServMinRateRelative Unsigned32,

```
diffServMinRateStorage    StorageType,  
diffServMinRateStatus    RowStatus  
}
```

diffServMinRateId OBJECT-TYPE

```
SYNTAX    IndexInteger  
MAX-ACCESS not-accessible  
STATUS    current  
DESCRIPTION
```

"An index that enumerates the Scheduler Parameter entries. Managers obtain new values for row creation in this table by reading diffServMinRateNextFree."

```
::= { diffServMinRateEntry 1 }
```

diffServMinRatePriority OBJECT-TYPE

```
SYNTAX    Unsigned32 (1..4294967295)  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION
```

"The priority of this input to the associated scheduler, relative

to the scheduler's other inputs. A queue or scheduler with a larger numeric value will be served before another with a smaller numeric value."

```
::= { diffServMinRateEntry 2 }
```

diffServMinRateAbsolute OBJECT-TYPE

```
SYNTAX    Unsigned32 (1..4294967295)  
UNITS     "kilobits per second"  
MAX-ACCESS  
read-create  
STATUS    current  
DESCRIPTION
```

"The minimum absolute rate, in kilobits/sec, that a downstream scheduler element should allocate to this queue. If the value is zero, then there is effectively no minimum rate guarantee. If the value is non-zero, the scheduler will assure the servicing of this queue to at least this rate.

Note that this attribute value and that of diffServMinRateRelative are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

$$\text{diffServMinRateRelative} = \frac{\text{diffServMinRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$ "

REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"

::= { diffServMinRateEntry 3 }

diffServMinRateRelative OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The minimum rate that a downstream scheduler element should allocate to this queue, relative to the maximum rate of the interface as reported by ifSpeed or ifHighSpeed, in units of 1/1000 of 1. If the value is zero, then there is effectively no minimum rate guarantee. If the value is non-zero, the scheduler will assure the servicing of this queue to at least this rate.

Note that this attribute value and that of diffServMinRateAbsolute are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting one will change the other:

$\text{diffServMinRateRelative} =$   
 $(\text{diffServMinRateAbsolute} * 1000000) / \text{ifSpeed}$

or, if appropriate:

$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$ "

REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB,  
RFC 2863"

::= { diffServMinRateEntry 4 }

diffServMinRateStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMinRateEntry 5 }

diffServMinRateStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMinRateEntry 6 }

--

-- Maximum Rate Parameter Table

--

-- The parameters used by a scheduler for its inputs or outputs are  
-- maintained

separately from the Queue or Scheduler table entries for

-- reusability reasons and so that they may be used by both queues and

-- schedulers. This follows the approach for separation of data path

-- elements from parameterization that is used throughout this MIB.

-- Use of these Maximum Rate Parameter Table entries by Queues and

-- Schedulers allows the modeling of hierarchical scheduling systems.

--

-- Specifically, a Scheduler has one or more inputs and one output.

-- Any queue feeding a scheduler, or any scheduler which feeds a second

-- scheduler, might specify a maximum transfer rate by pointing to a

-- Maximum Rate Parameter Table entry. Multi-rate shapers, such as a

-- Dual Leaky Bucket algorithm, specify their rates using multiple

-- Maximum Rate Parameter Entries with the same diffServMaxRateId but

-- different diffServMaxRateLevels.

--

-- The diffServMaxRateLevel/Abs/Rel attributes are used as

-- parameters to the non-work-conserving portion of a scheduler:

-- non-work-conserving

implies that the scheduler may sometimes not

-- emit a packet, even if there is data available at its input(s).

-- This has the effect of limiting the servicing of the queue/scheduler

-- input or output, in effect performing shaping of the packet stream

-- passing through the queue/scheduler, as described in the Informal

-- Differentiated Services Model section 7.2.

--

diffServMaxRateNextFree OBJECT-TYPE

SYNTAX IndexIntegerNextFree

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object contains an unused value for diffServMaxRateId, or a zero to indicate that none exist."

::= { diffServScheduler 5 }

diffServMaxRateTable OBJECT-TYPE

SYNTAX SEQUENCE OF DiffServMaxRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Maximum Rate Parameter Table enumerates individual sets of scheduling parameter that can be used/reused by Queues and Schedulers."

::=

{ diffServScheduler 6 }

diffServMaxRateEntry OBJECT-TYPE

SYNTAX DiffServMaxRateEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the Maximum Rate Parameter Table describes a single set of scheduling parameters for use by one or more queues or schedulers."

INDEX { diffServMaxRateId, diffServMaxRateLevel }

::= { diffServMaxRateTable 1 }

DiffServMaxRateEntry ::= SEQUENCE {

diffServMaxRateId IndexInteger,

diffServMaxRateLevel Unsigned32,

diffServMaxRateAbsolute Unsigned32,

diffServMaxRateRelative Unsigned32,

diffServMaxRateThreshold BurstSize,

diffServMaxRateStorage StorageType,

diffServMaxRateStatus RowStatus

}

diffServMaxRateId OBJECT-TYPE

SYNTAX IndexInteger

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that enumerates the Maximum Rate Parameter entries.

Managers obtain new values for row creation in this table by reading diffServMaxRateNextFree."

::= { diffServMaxRateEntry 1 }

diffServMaxRateLevel OBJECT-TYPE

SYNTAX Unsigned32 (1..32)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that indicates which level of a multi-rate shaper is being given its parameters. A multi-rate shaper has some number of rate levels. Frame Relay's dual rate specification refers to a 'committed' and an 'excess' rate; ATM's dual rate specification refers to a 'mean' and a 'peak' rate. This table is generalized to support an arbitrary number of rates. The committed or mean rate is level 1, the peak rate (if any) is the highest level rate configured, and if there are other rates they are distributed in monotonically increasing order between them."

::= { diffServMaxRateEntry 2 }

diffServMaxRateAbsolute OBJECT-TYPE

SYNTAX Unsigned32

(1..4294967295)

UNITS "kilobits per second"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum rate in kilobits/sec that a downstream scheduler element should allocate to this queue. If the value is zero, then there is effectively no maximum rate limit and that the scheduler should attempt to be work conserving for this queue. If the value is non-zero, the scheduler will limit the servicing of this queue to, at most, this rate in a non-work-conserving manner.

Note that this attribute value and that of diffServMaxRateRelative are coupled: changes to one will affect the value of the other. They are linked by the following

equation, in that setting one will change the other:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$ "

REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"

::= { diffServMaxRateEntry 3 }

diffServMaxRateRelative OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum rate that a downstream scheduler element should allocate to this queue, relative to the maximum rate of the interface as reported by ifSpeed or ifHighSpeed, in units of 1/1000 of 1. If the value is zero, then there is effectively no maximum rate limit and the scheduler should attempt to be work conserving for this queue. If the value is non-zero, the scheduler will limit the servicing of this queue to, at most, this rate in a non-work-conserving manner.

Note that this attribute value and that of diffServMaxRateAbsolute are coupled: changes to one will affect the value of the other. They are linked by the following equation, in that setting

one will change the other:

$\text{diffServMaxRateRelative} =$   
 $(\text{diffServMaxRateAbsolute} * 1000000) / \text{ifSpeed}$

or, if appropriate:

$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$ "

REFERENCE

"ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"

::= { diffServMaxRateEntry 4 }

diffServMaxRateThreshold OBJECT-TYPE

SYNTAX BurstSize

UNITS "Bytes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of bytes of queue depth at which the rate of a

multi-rate scheduler will increase to the next output rate. In the last conceptual row for such a shaper, this threshold is



ignored and by convention is zero."

#### REFERENCE

"Adaptive rate Shaper, RFC 2963"

::= { diffServMaxRateEntry 5 }

#### diffServMaxRateStorage OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

DEFVAL { nonVolatile }

::= { diffServMaxRateEntry 6 }

#### diffServMaxRateStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The status of this conceptual row. All writable objects in this row may be modified at any time. Setting this variable to 'destroy' when the MIB contains one or more RowPointers pointing to it results in destruction being delayed until the row is no longer used."

::= { diffServMaxRateEntry 7 }

--

-- MIB Compliance statements.

--

diffServMIBCompliances OBJECT IDENTIFIER ::=

{ diffServMIBConformance 1 }

diffServMIBGroups OBJECT IDENTIFIER ::=

{ diffServMIBConformance 2 }

#### diffServMIBFullCompliance MODULE-COMPLIANCE

STATUS current

#### DESCRIPTION

"When this MIB is implemented with support for read-create, then such an implementation can claim full compliance. Such devices can then be both monitored and configured with this MIB."

MODULE IF-MIB -- The interfaces MIB, RFC2863

MANDATORY-GROUPS {

```
    ifCounterDiscontinuityGroup
}
```

MODULE -- This Module

```
MANDATORY-GROUPS {
    diffServMIBDataPathGroup, diffServMIBClfrGroup,
    diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup, diffServMIBAlgDropGroup,
    diffServMIBQGroup, diffServMIBSchedulerGroup,
    diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
    diffServMIBCounterGroup
}
```

GROUP diffServMIBMeterGroup

DESCRIPTION

"This group is mandatory for devices that implement metering functions."

GROUP diffServMIBTBParamGroup

DESCRIPTION

"This group is mandatory for devices that implement token-bucket metering functions."

GROUP diffServMIBDscpMarkActGroup

DESCRIPTION

"This group is mandatory for devices that implement DSCP-Marking functions."

GROUP diffServMIBRandomDropGroup

DESCRIPTION

"This group is mandatory for devices that implement Random Drop functions."

OBJECT diffServDataPathStatus

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServClfrStatus

SYNTAX RowStatus { active(1) }

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServClfrElementStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType  
SYNTAX InetAddressType  
{ unknown(0), ipv4(1), ipv6(2) }

DESCRIPTION

"An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr  
SYNTAX InetAddress (SIZE(0|4|16))

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServAlgDropStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServRandomDropStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServQStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServSchedulerStatus  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION

"Support for createAndWait and notInService is not required."

OBJECT diffServMinRateStatus  
SYNTAX RowStatus { active(1) }

```

WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
    "Support for createAndWait and notInService is not required."

OBJECT diffServMaxRateStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION
    "Support for createAndWait and notInService is not required."

 ::= { diffServMIBCompliances 1 }

--
-- Read-Only Compliance
--

diffServMIBReadOnlyCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
    "When this MIB is implemented without support for read-create
    (i.e. in read-only mode), then such an implementation can claim
    read-only compliance. Such a device can then be monitored but can
    not be configured
with this MIB."

MODULE IF-MIB -- The interfaces MIB, RFC2863
MANDATORY-GROUPS {
    ifCounterDiscontinuityGroup
}

MODULE -- This Module
MANDATORY-GROUPS {
    diffServMIBDataPathGroup, diffServMIBClfrGroup,
    diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup, diffServMIBAlgDropGroup,
    diffServMIBQGroup, diffServMIBSchedulerGroup,
    diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
    diffServMIBCounterGroup
}

GROUP diffServMIBMeterGroup
DESCRIPTION
    "This group is mandatory for devices that implement metering
    functions."

```

GROUP diffServMIBTBParamGroup

DESCRIPTION

"This group is mandatory for devices that implement token-bucket metering functions."

GROUP diffServMIBDscpMarkActGroup

DESCRIPTION

"This group is mandatory for devices that implement DSCP-Marking functions."

GROUP diffServMIBRandomDropGroup

DESCRIPTION

"This group is mandatory for devices that implement Random Drop functions."

OBJECT diffServDataPathStart

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServDataPathStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServDataPathStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object not needed when diffServClfrTable is implemented read-only"

OBJECT diffServClfrStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServClfrStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrElementNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object not needed when diffServClfrelementTable is implemented read-only"

OBJECT diffServClfrElementPrecedence

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMultiFieldClfrNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMultiFieldClfrTable is implemented in read-only mode."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { unknown(0), ipv4(1), ipv6(2) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required. An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr  
SYNTAX InetAddress (SIZE(0|4|16))  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrDstPrefixLength  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcAddr  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrSrcPrefixLength  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrDscp  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrFlowId  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrProtocol  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMin  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMax

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMin

MIN-ACCESS

read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMax

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMultiFieldClfrStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, createAndWait and notInService support is not required."

OBJECT diffServMeterNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServMultiFieldClfrTable is implemented in read-only mode."

OBJECT diffServMeterSucceedNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterFailNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."



OBJECT diffServMeterSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServMeterStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServTBParamNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServTBParamTable is implemented in read-only mode."

OBJECT diffServTBParamType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamBurstSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT

diffServTBParamInterval

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServTBParamStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServActionNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServActionTable is implemented in read-only mode."

OBJECT diffServActionInterface

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServActionNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServActionSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServActionStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServActionStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServCountActNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object is not needed when diffServCountActTable is implemented in read-only mode."

OBJECT diffServCountActStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServCountActStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServAlgDropNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object is not needed when diffServAlgDropTable is implemented in read-only mode."

OBJECT diffServAlgDropType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServAlgDropNext  
MIN-ACCESS read-only

DESCRIPTION  
"Write access is not required."

OBJECT diffServAlgDropQMeasure  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServAlgDropQThreshold  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServAlgDropSpecific

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServAlgDropStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required,  
and active is the only status that  
needs to be supported."

OBJECT diffServRandomDropNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServRandomDropTable is implemented  
in read-only mode."

OBJECT diffServRandomDropMinThreshBytes

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMinThreshPkts

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMaxThreshBytes

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropMaxThreshPkts

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropProbMax

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropWeight

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropSamplingRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServRandomDropStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServQNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServQTable is implemented in read-only mode."

OBJECT diffServQNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQMinRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQMaxRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServQStatus

SYNTAX RowStatus { active(1) }

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServSchedulerNextFree

MIN-ACCESS not-accessible

DESCRIPTION

"Object is not needed when diffServSchedulerTable is implemented in read-only mode."

OBJECT diffServSchedulerNext

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMethod

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMinRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerMaxRate

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerStorage

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT diffServSchedulerStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMinRateNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object is not needed when diffServMinRateTable is implemented in read-only mode."

OBJECT diffServMinRatePriority  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMinRateAbsolute  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMinRateRelative  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMinRateStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMinRateStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMaxRateNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"Object is not needed when diffServMaxrateTable is implemented in read-only mode."

OBJECT diffServMaxRateAbsolute  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMaxRateRelative  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMaxRateThreshold  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMaxRateStorage  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT diffServMaxRateStatus  
SYNTAX RowStatus { active(1) }  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required, and active is the only status that  
needs to be supported."

::= { diffServMIBCompliances 2 }

diffServMIBDataPathGroup OBJECT-GROUP

OBJECTS {  
diffServDataPathStart, diffServDataPathStorage,  
diffServDataPathStatus  
}

STATUS current

DESCRIPTION

"The Data Path Group defines the MIB Objects that describe a  
functional data path."

::= { diffServMIBGroups 1 }

diffServMIBClfrGroup OBJECT-GROUP

OBJECTS {  
diffServClfrNextFree, diffServClfrStorage,  
diffServClfrStatus  
}

STATUS current

DESCRIPTION



"The Classifier Group defines the MIB Objects that describe the

list the starts of individual classifiers."

::= { diffServMIBGroups 2 }

diffServMIBClfrElementGroup

OBJECT-GROUP

OBJECTS {

diffServClfrElementNextFree,  
diffServClfrElementPrecedence, diffServClfrElementNext,  
diffServClfrElementSpecific, diffServClfrElementStorage,  
diffServClfrElementStatus

}

STATUS current

DESCRIPTION

"The Classifier Element Group defines the MIB Objects that describe the classifier elements that make up a generic classifier."

::= { diffServMIBGroups 3 }

diffServMIBMultiFieldClfrGroup OBJECT-GROUP

OBJECTS {

diffServMultiFieldClfrNextFree,  
diffServMultiFieldClfrAddrType,  
diffServMultiFieldClfrDstAddr,  
diffServMultiFieldClfrDstPrefixLength,  
diffServMultiFieldClfrFlowId,  
diffServMultiFieldClfrSrcAddr,  
diffServMultiFieldClfrSrcPrefixLength,  
diffServMultiFieldClfrDscp,  
diffServMultiFieldClfrProtocol,  
diffServMultiFieldClfrDstL4PortMin,  
diffServMultiFieldClfrDstL4PortMax,  
diffServMultiFieldClfrSrcL4PortMin,  
diffServMultiFieldClfrSrcL4PortMax,  
diffServMultiFieldClfrStorage,  
diffServMultiFieldClfrStatus

}

STATUS current

DESCRIPTION

"The Multi-field Classifier Group defines the MIB Objects that describe a classifier element for matching on various fields of an IP and upper-layer protocol header."

::= { diffServMIBGroups 4 }

diffServMIBMeterGroup OBJECT-GROUP

```

OBJECTS {
    diffServMeterNextFree, diffServMeterSucceedNext,
    diffServMeterFailNext, diffServMeterSpecific,
    diffServMeterStorage, diffServMeterStatus
}

STATUS    current
DESCRIPTION
    "The Meter Group defines the objects used in describing a generic
    meter element."
::= { diffServMIBGroups 5 }

```

```

diffServMIBTBParamGroup OBJECT-GROUP
OBJECTS {
    diffServTBParamNextFree,
diffServTBParamType,
    diffServTBParamRate, diffServTBParamBurstSize,
    diffServTBParamInterval, diffServTBParamStorage,
    diffServTBParamStatus
}
STATUS    current
DESCRIPTION
    "The Token-Bucket Meter Group defines the objects used in
    describing a token bucket meter element."
::= { diffServMIBGroups 6 }

```

```

diffServMIBActionGroup OBJECT-GROUP
OBJECTS {
    diffServActionNextFree, diffServActionNext,
    diffServActionSpecific, diffServActionStorage,
    diffServActionInterface, diffServActionStatus
}
STATUS    current
DESCRIPTION
    "The Action Group defines the objects used in describing a
    generic action element."
::= { diffServMIBGroups 7 }

```

```

diffServMIBDscpMarkActGroup OBJECT-GROUP
OBJECTS {
    diffServDscpMarkActDscp
}
STATUS    current
DESCRIPTION
    "The DSCP Mark Action Group defines the objects used in

```

describing a DSCP Marking Action element."  
 ::= { diffServMIBGroups 8 }

#### diffServMIBCounterGroup OBJECT-GROUP

OBJECTS {  
 diffServCountActOctets, diffServCountActPkts,  
 diffServAlgDropOctets, diffServAlgDropPkts,  
 diffServAlgRandomDropOctets, diffServAlgRandomDropPkts,  
 diffServCountActStorage, diffServCountActStatus,  
 diffServCountActNextFree

}

STATUS current

#### DESCRIPTION

"A collection of objects providing information specific to  
packet-oriented network interfaces."

::= { diffServMIBGroups 9 }

#### diffServMIBAlgDropGroup OBJECT-GROUP

OBJECTS {  
 diffServAlgDropNextFree, diffServAlgDropType,  
 diffServAlgDropNext, diffServAlgDropQMeasure,  
 diffServAlgDropQThreshold, diffServAlgDropSpecific,  
 diffServAlgDropStorage, diffServAlgDropStatus

}

STATUS current

#### DESCRIPTION

"The Algorithmic Drop Group contains  
the objects that describe  
algorithmic dropper operation and configuration."

::= { diffServMIBGroups 10 }

#### diffServMIBRandomDropGroup OBJECT-GROUP

OBJECTS {  
 diffServRandomDropNextFree,  
 diffServRandomDropMinThreshBytes,  
 diffServRandomDropMinThreshPkts,  
 diffServRandomDropMaxThreshBytes,  
 diffServRandomDropMaxThreshPkts,  
 diffServRandomDropProbMax,  
 diffServRandomDropWeight,  
 diffServRandomDropSamplingRate,  
 diffServRandomDropStorage,  
 diffServRandomDropStatus

}

STATUS current

DESCRIPTION

"The Random Drop Group augments the Algorithmic Drop Group for random dropper operation and configuration."

::= { diffServMIBGroups 11 }

diffServMIBQGroup OBJECT-GROUP

OBJECTS {

diffServQNextFree, diffServQNext, diffServQMinRate,  
diffServQMaxRate, diffServQStorage, diffServQStatus

}

STATUS current

DESCRIPTION

"The Queue Group contains the objects that describe an

interface's queues."

::= { diffServMIBGroups 12 }

diffServMIBSchedulerGroup OBJECT-GROUP

OBJECTS {

diffServSchedulerNextFree, diffServSchedulerNext,  
diffServSchedulerMethod, diffServSchedulerMinRate,  
diffServSchedulerMaxRate, diffServSchedulerStorage,  
diffServSchedulerStatus

}

STATUS current

DESCRIPTION

"The Scheduler Group contains the objects that describe packet schedulers on interfaces."

::= { diffServMIBGroups 13 }

diffServMIBMinRateGroup OBJECT-GROUP

OBJECTS {

diffServMinRateNextFree, diffServMinRatePriority,  
diffServMinRateAbsolute, diffServMinRateRelative,  
diffServMinRateStorage, diffServMinRateStatus

}

STATUS current

DESCRIPTION

"The Minimum Rate Parameter Group contains the objects that

describe packet schedulers' minimum rate or priority guarantees."

::= { diffServMIBGroups 14 }

diffServMIBMaxRateGroup OBJECT-GROUP

```

OBJECTS {
    diffServMaxRateNextFree, diffServMaxRateAbsolute,
    diffServMaxRateRelative, diffServMaxRateThreshold,
    diffServMaxRateStorage, diffServMaxRateStatus
}
STATUS    current
DESCRIPTION
    "The Maximum Rate Parameter Group contains the objects that
    describe packet schedulers' maximum rate guarantees."
::= { diffServMIBGroups 15 }

```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB

No license file was found, but licenses were detected in source scan.

DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS

```

    DisplayString, RowStatus,
    RowPointer, TruthValue,
    TEXTUAL-CONVENTION          FROM SNMPv2-TC
    Counter32, Gauge32, TimeTicks,
    OBJECT-TYPE, MODULE-IDENTITY,
    NOTIFICATION-TYPE, mib-2    FROM SNMPv2-SMI
    MODULE-COMPLIANCE, OBJECT-GROUP,
    NOTIFICATION-GROUP          FROM SNMPv2-CONF
    ifIndex                      FROM IF-MIB
    sdlcLSAddress                FROM SNA-SDLC-MIB;

```

dlsw MODULE-IDENTITY

```

    LAST-UPDATED "9606040900Z"
    ORGANIZATION "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"
    CONTACT-INFO
        "David D. Chen
        IBM Corporation
        800 Park, Highway 54
        Research Triangle Park, NC 27709-9990
        Tel: 1 919 254 6182
        E-mail: dchen@vnet.ibm.com"

```

DESCRIPTION

```

    "This MIB module contains objects to manage Data Link
    Switches."
::= { mib-2 46 }

```

dlswMIB OBJECT IDENTIFIER ::= { dlsw 1 }  
dlswDomains OBJECT IDENTIFIER ::= { dlsw 2 }

-- \*\*\*\*\*  
-- Textual convention definitions  
-- \*\*\*\*\*

NBName ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Represents a single qualified NetBIOS name, which can include  
`don't care' and `wildcard' characters to represent a number  
of real NetBIOS names. If an individual character position in  
the qualified name contains a `?', the corresponding character  
position in a real NetBIOS name is a `don't care'. If the  
qualified name ends in `\*', the remainder of a real NetBIOS  
name is a `don't care'. `\*' is only considered a wildcard if it  
appears at the end of a name."

SYNTAX OCTET STRING (SIZE  
(0..16))

MacAddressNC ::= TEXTUAL-CONVENTION

DISPLAY-HINT "1x:"

STATUS current

DESCRIPTION

"Represents an 802 MAC address represented in  
non-canonical format. That is, the most significant  
bit will be transmitted first. If this information  
is not available, the value is a zero length string."

SYNTAX OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Denotes a transport service address.  
For dlswTCPDomain, a TAddress is 4 octets long,  
containing the IP-address in network-byte order."

SYNTAX OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the location of an end station related  
to the managed DLSw node."

SYNTAX INTEGER {  
    other (1),  
    internal (2), -- local virtual MAC address  
    remote (3), -- via

```
DLSw partner
    local      (4) -- locally attached
}
```

DlcType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Representing the type of DLC of an end station, if applicable."

SYNTAX INTEGER {

```
    other      (1), -- not assigned yet
    na         (2), -- not applicable
    llc        (3), -- 802.2 Logical Link Control
    sdlc       (4), -- SDLC
    qllc       (5) -- QLLC
```

}

LFSsize ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The largest size of the INFO field (including DLC header, not including any MAC-level or framing octets).

64 valid values as defined by the IEEE 802.1D

Addendum are acceptable."

SYNTAX INTEGER {

```
    lfs516(516), lfs635(635), lfs754(754), lfs873(873),
    lfs993(993), lfs1112(1112), lfs1231(1231),
    lfs1350(1350), lfs1470(1470),
```

lfs1542(1542),

```
    lfs1615(1615), lfs1688(1688), lfs1761(1761),
    lfs1833(1833), lfs1906(1906), lfs1979(1979),
    lfs2052(2052), lfs2345(2345), lfs2638(2638),
    lfs2932(2932), lfs3225(3225), lfs3518(3518),
    lfs3812(3812), lfs4105(4105), lfs4399(4399),
    lfs4865(4865), lfs5331(5331), lfs5798(5798),
    lfs6264(6264), lfs6730(6730), lfs7197(7197),
    lfs7663(7663), lfs8130(8130), lfs8539(8539),
    lfs8949(8949), lfs9358(9358), lfs9768(9768),
    lfs10178(10178), lfs10587(10587), lfs10997(10997),
    lfs11407(11407), lfs12199(12199), lfs12992(12992),
    lfs13785(13785), lfs14578(14578), lfs15370(15370),
    lfs16163(16163), lfs16956(16956), lfs17749(17749),
    lfs20730(20730), lfs23711(23711), lfs26693(26693),
    lfs29674(29674), lfs32655(32655), lfs38618(38618),
    lfs41600(41600), lfs44591(44591),
```

lfs47583(47583),

```
    lfs50575(50575), lfs53567(53567), lfs56559(56559),
    lfs59551(59551), lfs65535(65535)
```

```

    }

null OBJECT IDENTIFIER ::= { 0 0 }

-- *****
-- DLSw Transport Domain definitions
-- *****

-- DLSw over TCP
dlswTCPDomain OBJECT IDENTIFIER ::= { dlswDomains 1 }
-- for an IP address of length 4:
--
-- octets contents encoding
-- 1-4 IP-address network-byte order
--
DlswTCPAddress ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "1d.1d.1d.1d"
    STATUS current
    DESCRIPTION
        "Represents the IP address of a DLSw which uses
        TCP as a transport protocol."
    SYNTAX OCTET STRING (SIZE (4))

-- *****
-- DLSw MIB Definition
-- *****

-- The
DLSw MIB module contains an object part and a conformance part.
-- Object part is organized in the following groups:
-- (1) dlswNode - information about this DLSw
-- (2) dlswTConn - about adjacent DLSw partners
-- (3) dlswInterface - about which interfaces DLSw is active on
-- (4) dlswDirectory - about any directory of local/remote resources
-- (5) dlswCircuit - about established circuits.
-- (6) dlswSdlc - about SDLC data link switched devices

dlswNode OBJECT IDENTIFIER ::= { dlswMIB 1 }
dlswTConn OBJECT IDENTIFIER ::= { dlswMIB 2 }
dlswInterface OBJECT IDENTIFIER ::= { dlswMIB 3 }
dlswDirectory OBJECT IDENTIFIER ::= { dlswMIB 4 }
dlswCircuit OBJECT IDENTIFIER ::= { dlswMIB 5 }
dlswSdlc OBJECT IDENTIFIER ::= { dlswMIB 6 } -- SDLC

-- *****
-- THE NODE GROUP

```



-- \*\*\*\*\*

-----

--

### DLSw Node Identity

-----

dlswNodeVersion OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (2))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the particular version of the DLSw standard supported by this DLSw. The first octet is a hexadecimal value representing the DLSw standard Version number of this DLSw, and the second is a hexadecimal value representing the DLSw standard Release number. This information is reported in DLSw Capabilities Exchange."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswNode 1 }

dlswNodeVendorID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (3))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the manufacturer's IEEE-assigned organizationally Unique Identifier (OUI) of this DLSw.

This information

is reported in DLSw Capabilities

Exchange."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswNode 2 }

dlswNodeVersionString OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This string gives product-specific information about this DLSw (e.g., product name, code release and fix level).

This flows in Capabilities Exchange messages."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswNode 3 }

-----

-- DLSw Code Capability

-----  
dlswNodeStdPacingSupport OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- does not support DLSw  
-- Standard pacing scheme

adaptiveRcvWindow (2), -- the receive window size  
-- varies

fixedRcvWindow

(3) -- the receive window size  
-- remains constant

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Circuit pacing, as defined in the DLSw Standard, allows each of the two DLSw nodes on a circuit to control the amount of data the other is permitted to send to them. This object reflects the level of support the DLSw node has for this protocol. (1) means the node has no support for the standard circuit pacing flows; it may use RFC 1434+ methods only, or a proprietary flow control scheme. (2) means the node supports the standard scheme and can vary the window sizes it grants as a data receiver. (3) means the node supports the standard scheme but never varies its receive window size."

::= { dlswNode 4 }

-----  
-- DLSw Node Operational Objects

-----  
dlswNodeStatus

OBJECT-TYPE

SYNTAX INTEGER {

active (1),

inactive (2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The status of the DLSw part of the system. Changing the value from active to inactive causes DLSw to take the following actions - (1) it disconnects all circuits through all DLSw partners, (2) it disconnects all transport connections to all DLSw partners, (3) it disconnects all local DLC connections, and (4) it stops processing all DLC connection set-up traffic.

Since these are destructive actions, the user should query the circuit and transport connection tables in

advance to understand the effect this action will have.  
Changing the value from inactive to active causes DLSw  
to come up in its initial state, i.e., transport  
connections established and ready to bring up circuits."

::= { dlswNode 5 }

dlswNodeUpTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The amount of time (in hundredths of a second) since  
the DLSw portion of the system was last re-initialized.

That is, if dlswState is in the active state,  
the time the dlswState entered the active state.

It will remain zero if dlswState is in the  
inactive state."

::= { dlswNode 6 }

dlswNodeVirtualSegmentLFSize OBJECT-TYPE

SYNTAX LFSize

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The largest frame size (including DLC header and info field  
but not any MAC-level or framing octets) this DLSw can forward  
on any path through itself. This object can represent any box-  
level frame size forwarding restriction (e.g., from the use  
of fixed-size buffers). Some DLSw implementations will have  
no such restriction.

This value will affect the LF size of circuits during circuit  
creation. The LF size of an existing circuit can be found in  
the RIF (Routing Information Field)."

DEFVAL { lfs65535 }

::= { dlswNode 7 }

-- .....  
-- NETBIOS Resources  
-- .....

dlswNodeResourceNBExclusivity OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value of true indicates that the NetBIOS Names

configured in dlswDirNBTable are the only ones accessible via this DLSw.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action.

It is up to the implementation exactly when to start the run-time capabilities exchange."

::= { dlswNode 8 }

-- .....

--

MAC Address List

-- .....

dlswNodeResourceMacExclusivity OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value of true indicates that the MAC addresses configured in the dlswDirMacTable are the only ones accessible via this DLSw.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action.

It is up to the implementation exactly when to start the run-time capabilities exchange."

::= { dlswNode 9 }

-- \*\*\*\*\*

-- TRANSPORT CONNECTION (aka: PARTNER DLSW)

-- \*\*\*\*\*

-----

-- Transport Connection Statistics Objects

-----

dlswTConnStat

OBJECT IDENTIFIER ::= { dlswTConn 1 }

dlswTConnStatActiveConnections OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of transport connections that are not in `disconnected' state."

::= { dlswTConnStat 1 }

dlswTConnStatCloseIdles OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times transport connections in this node exited the connected state with zero active circuits on the transport connection."

::= { dlswTConnStat 2 }

dlswTConnStatCloseBusys OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times transport connections in this node exited the connected state with some non-zero number of active circuits on the transport connection. Normally this means the transport connection failed unexpectedly."

::= { dlswTConnStat 3 }

-----  
-- Transport Connection Configuration Table  
-----

dlswTConnConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswTConnConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines the transport connections that will be initiated or accepted by this DLSw. Structure of masks allows wildcard definition for a collection of transport connections by a conceptual row. For a specific transport connection, there may be multiple of conceptual rows match the transport address. The `best' match will be the one to determine the characteristics of the transport connection."

::= { dlswTConn 2 }

dlswTConnConfigEntry OBJECT-TYPE

SYNTAX DlswTConnConfigEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Each conceptual row defines a collection of transport connections."

```
INDEX { dlswTConnConfigIndex }  
::= { dlswTConnConfigTable 1 }
```

```
DlswTConnConfigEntry ::= SEQUENCE {  
  dlswTConnConfigIndex      INTEGER,  
  dlswTConnConfigTDomain    OBJECT IDENTIFIER,  
  dlswTConnConfigLocalTAddr TAddress,  
  dlswTConnConfigRemoteTAddr TAddress,  
  dlswTConnConfigLastModifyTime TimeTicks,  
  dlswTConnConfigEntryType  INTEGER,  
  dlswTConnConfigGroupDefinition RowPointer,  
  dlswTConnConfigSetupType  INTEGER,  
  dlswTConnConfigSapList    OCTET STRING,  
  dlswTConnConfigAdvertiseMacNB TruthValue,  
  dlswTConnConfigInitCirRecvWndw INTEGER,  
  dlswTConnConfigOpens      Counter32,  
  dlswTConnConfigRowStatus  RowStatus  
}
```

```
dlswTConnConfigIndex OBJECT-TYPE  
SYNTAX INTEGER (0..2147483647)
```

```
MAX-ACCESS
```

```
not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

"The index to the conceptual row of the table. Negative numbers are not allowed. There are objects defined that point to conceptual rows of this table with this index value. Zero is used to denote that no corresponding row exists.

Index values are assigned by the agent, and should not be reused but should continue to increase in value."

```
::= { dlswTConnConfigEntry 1 }
```

```
dlswTConnConfigTDomain OBJECT-TYPE
```

```
SYNTAX OBJECT IDENTIFIER
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The object identifier which indicates the transport domain of this conceptual row."

```
::= { dlswTConnConfigEntry 2 }
```

dlsWTConnConfigLocalTAddr OBJECT-TYPE

SYNTAX TAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The local transport address for this conceptual row of the transport connection

definition."

::= { dlsWTConnConfigEntry 3 }

dlsWTConnConfigRemoteTAddr OBJECT-TYPE

SYNTAX TAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The remote transport address. Together with dlsWTConnConfigEntryType and dlsWTConnConfigGroupDefinition, the object instance of this conceptual row identifies a collection of the transport connections that will be either initiated by this DLSw or initiated by a partner DLSw and accepted by this DLSw."

::= { dlsWTConnConfigEntry 4 }

dlsWTConnConfigLastModifyTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time (in hundredths of a second) since the value of any object in this conceptual row except for dlsWTConnConfigOpens was last changed. This value may be compared to dlsWTConnOperConnectTime to determine whether

values in this row are completely valid for a transport connection created using this row definition."

::= { dlsWTConnConfigEntry 5 }

dlsWTConnConfigEntryType OBJECT-TYPE

SYNTAX INTEGER {

individual (1),

global (2),

group (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The object instance signifies the type of entry in the associated conceptual row. The value of `individual` means that the entry applies to a specific partner DLSw node as identified by dlswTConnConfigRemoteTAddr and dlswTConnConfigTDomain. The value of `global` means that the entry applies to all partner DLSw nodes of the TDomain. The value of `group` means that the entry applies to a specific set of DLSw nodes in the TDomain. Any group definitions are enterprise-specific and are pointed to by dlswTConnConfigGroupDefinition. In the cases of

`global` and `group`, the value in dlswTConnConfigRemoteTAddr may not have any significance."

::= { dlswTConnConfigEntry 6 }

dlswTConnConfigGroupDefinition OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"For conceptual rows of `individual` and `global` as specified in dlswTConnConfigEntryType, the instance of this object is `0.0`. For conceptual rows of `group`, the instance points to the specific group definition."

::= { dlswTConnConfigEntry 7 }

dlswTConnConfigSetupType OBJECT-TYPE

SYNTAX INTEGER {

other (1),

activePersistent (2),

activeOnDemand (3),

passive (4),

excluded (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value of the instance of a conceptual row identifies the behavior of the collection of transport

connections that this conceptual row

defines. The value of activePersistent, activeOnDemand and passive means this DLSw will accept any transport connections, initiated by partner DLSw nodes, which are defined by this conceptual row. The value of activePersistent means this DLSw will also initiate



the transport connections of this conceptual row and retry periodically if necessary. The value of activeOnDemand means this DLSw will initiate a transport connection of this conceptual row, if there is a directory cache hits. The value of other is implementation specific. The value of exclude means that the specified node is not allowed to be a partner to this DLSw node. To take a certain conceptual row definition out of service, a value of notInService for dlswTConnConfigRowStatus should be used."

```
DEFVAL { passive }  
::= { dlswTConnConfigEntry 8  
}
```

dlswTConnConfigSapList OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(16))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP list indicates which SAPs are advertised to the transport connection defined by this conceptual row. Only SAPs with even numbers are represented, in the form of the most significant bit of the first octet representing the SAP 0, the next most significant bit representing the SAP 2, to the least significant bit of the last octet representing the SAP 254. Data link switching is allowed for those SAPs which have one in its corresponding bit, not allowed otherwise. The whole SAP list has to be changed together. Changing the SAP list affects only new circuit establishments and has no effect on established circuits.

This list can be used to restrict specific partners from knowing about all the SAPs used by DLSw on all its

interfaces (these are represented in dlswIfSapList for each interface). For instance, one may want to run NetBIOS with some partners but not others.

If a node supports sending run-time capabilities exchange messages, changes to this object should cause that action. When to start the run-time capabilities exchange is implementation-specific.

The DEFVAL below indicates support for SAPs 0, 4, 8, and C."

```
DEFVAL { 'AA0000000000000000000000000000'H }  
::= { dlswTConnConfigEntry 9 }
```

dlswTConnConfigAdvertiseMacNB OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of true indicates that any defined local MAC addresses and NetBIOS names will be advertised to a partner node via initial and (if supported) run-time capabilities exchange messages. The DLSw node should send the appropriate exclusivity control vector to accompany each list it sends, or to represent that the node is explicitly configured to have a null list.

The value of false indicates that the DLSw node should not send a MAC address list or NetBIOS name list, and should also not send their corresponding exclusivity control vectors."

DEFVAL { true }

::= { dlswTConnConfigEntry 10 }

dlswTConnConfigInitCirRecvWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

UNITS "SSP messages"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The initial circuit receive pacing window size, in the unit of SSP messages, to be used for future transport connections activated using this table row. The managed node sends this value as its initial receive pacing window in its initial capabilities exchange message. Changing this value does not affect the initial circuit receive pacing window size of currently active

transport connections. If the standard window pacing scheme is not supported, the value is zero.

A larger receive window value may be appropriate for partners that are reachable only via physical paths that have longer network delays."

DEFVAL { 1 }

::= { dlswTConnConfigEntry 11 }

dlswTConnConfigOpens OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Number of times transport connections entered

connected state according to the definition of  
this conceptual row."  
::= { dlswTConnConfigEntry 12 }

dlswTConnConfigRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"This object is used by the manager to create  
or delete the row entry in the dlswTConnConfigTable  
following the RowStatus textual convention. The value  
of notInService will be used to take a conceptual  
row

definition out of use."

::= { dlswTConnConfigEntry 13 }

-----  
-- Transport Connection Operation Table  
-----

- (1) At most one transport connection can be connected between  
-- this DLSw and one of its DLSw partners at a given time.
- (2) Multiple transport types are supported.
- (3) Since the entries may be reused, dlswTConnOperEntryTime  
-- needs to be consulted for the possibility of counter reset.

-----  
dlswTConnOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswTConnOperEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

"A list of transport connections. It is optional but  
desirable for the agent to keep an entry for some  
period of time after the transport connection is  
disconnected. This allows the manager to capture  
additional useful information about the connection, in  
particular, statistical information and the cause of the  
disconnection."

::= { dlswTConn 3 }

dlswTConnOperEntry OBJECT-TYPE

SYNTAX DlswTConnOperEntry  
MAX-ACCESS not-accessible  
STATUS current

DESCRIPTION

""

INDEX { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }

::= { dlswTConnOperTable 1 }

DlswTConnOperEntry ::= SEQUENCE {  
    dlswTConnOperTDomain           OBJECT IDENTIFIER,  
    dlswTConnOperLocalTAddr       TAddress,  
    dlswTConnOperRemoteTAddr      TAddress,  
  
    dlswTConnOperEntryTime        TimeTicks,  
    dlswTConnOperConnectTime      TimeTicks,  
    dlswTConnOperState            INTEGER,  
    dlswTConnOperConfigIndex      INTEGER,  
    dlswTConnOperFlowCntlMode     INTEGER,  
  
    dlswTConnOperPartnerVersion   OCTET STRING,  
    dlswTConnOperPartnerVendorID   OCTET STRING,  
    dlswTConnOperPartnerVersionStr  
        DisplayString,  
    dlswTConnOperPartnerInitPacingWndw  INTEGER,  
  
    dlswTConnOperPartnerSapList    OCTET STRING,  
    dlswTConnOperPartnerNBExcl     TruthValue,  
    dlswTConnOperPartnerMacExcl    TruthValue,  
    dlswTConnOperPartnerNBInfo     INTEGER,  
    dlswTConnOperPartnerMacInfo    INTEGER,  
  
    dlswTConnOperDiscTime          TimeTicks,  
    dlswTConnOperDiscReason        INTEGER,  
    dlswTConnOperDiscActiveCir     INTEGER,  
  
    dlswTConnOperInDataPkts        Counter32,  
    dlswTConnOperOutDataPkts       Counter32,  
    dlswTConnOperInDataOctets      Counter32,  
    dlswTConnOperOutDataOctets     Counter32,  
  
    dlswTConnOperInCntlPkts        Counter32,  
    dlswTConnOperOutCntlPkts       Counter32,  
  
    dlswTConnOperCURExSents        Counter32,  
    dlswTConnOperICRexRcvds        Counter32,  
    dlswTConnOperCURExRcvds        Counter32,  
    dlswTConnOperICRexSents        Counter32,  
  
    dlswTConnOperNQexSents         Counter32,  
    dlswTConnOperNRexRcvds         Counter32,  
    dlswTConnOperNQexRcvds         Counter32,  
    dlswTConnOperNRexSents         Counter32,  
    dlswTConnOperCirCreates        Counter32,  
    dlswTConnOperCircuits          Gauge32

}

dlsWConnOperTDomain OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The object identifier indicates the transport domain  
of this transport connection."

::= { dlsWConnOperEntry 1 }

dlsWConnOperLocalTAddr OBJECT-TYPE

SYNTAX TAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The local transport address for this transport connection.  
This value could be different from dlsWConnConfigLocalAddr,  
if the value of the latter were changed after this transport  
connection was

established."

::= { dlsWConnOperEntry 2 }

dlsWConnOperRemoteTAddr OBJECT-TYPE

SYNTAX TAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The remote transport address of this transport connection."

::= { dlsWConnOperEntry 3 }

dlsWConnOperEntryTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The amount of time (in hundredths of a second) since this  
transport connection conceptual row was created."

::= { dlsWConnOperEntry 4 }

-- .....  
-- DLSw Transport Connection Operational Objects  
-- .....

dlsWConnOperConnectTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The amount of time (in hundredths of a second) since this transport connection last entered the 'connected' state. A value of zero means this transport connection has never been established."

::= { dlswTConnOperEntry 5 }

dlswTConnOperState OBJECT-TYPE

SYNTAX INTEGER {

connecting (1),

initCapExchange (2),

connected (3),

quiescing (4),

disconnecting (5),

disconnected (6)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The state of this transport connection. The transport connection enters `connecting' state when DLSw makes a connection request to the transport layer. Once initial Capabilities Exchange is sent, the transport connection enters enters `initCapExchange' state. When partner capabilities have been determined and the transport connection is ready for sending CanUReach (CUR) messages, it moves

to the `connected' state. When DLSw is in the process of bringing down the connection, it is in the `disconnecting' state. When the transport layer indicates one of its connections is disconnected, the transport connection moves to the `disconnected' state.

Whereas all of the values will be returned in response to a management protocol retrieval operation, only two values may be specified in a management protocol set operation: `quiescing' and `disconnecting'. Changing the value to `quiescing' prevents new circuits from being established, and will cause a transport disconnect when the last circuit on the connection goes away. Changing the value to `disconnecting' will force off all circuits immediately and bring the connection to `disconnected' state."

::= { dlswTConnOperEntry 6 }

dlsWTCConnOperConfigIndex OBJECT-TYPE  
SYNTAX INTEGER (0..2147483647)  
MAX-ACCESS  
read-only  
STATUS current  
DESCRIPTION  
"The value of dlsWTCConnConfigIndex of the dlsWTCConnConfigEntry that governs the configuration information used by this dlsWTCConnOperEntry. The manager can therefore normally examine both configured and operational information for this transport connection.

This value is zero if the corresponding dlsWTCConnConfigEntry was deleted after the creation of this dlsWTCConnOperEntry. If some fields in the former were changed but the conceptual row was not deleted, some configuration information may not be valid for this operational transport connection. The manager can compare dlsWTCConnOperConnectTime and dlsWTCConnConfigLastModifyTime to determine if this condition exists."

::= { dlsWTCConnOperEntry 7 }

-- .....  
-- Transport Connection Characteristics  
-- .....

dlsWTCConnOperFlowCntlMode  
OBJECT-TYPE  
SYNTAX INTEGER {  
undetermined (1),  
pacing (2), -- DLSw standard flow control  
other (3) -- non-DLSw standard flow control  
}  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The flow control mechanism in use on this transport connection. This value is undetermined (1) before the mode of flow control can be established on a new transport connection (i.e., after CapEx is sent but before Capex or other SSP control messages have been received). Pacing (2) indicates that the standard RFC 1795 pacing mechanism is in use. Other (3) may be either the RFC 1434+ xBusy mechanism operating to a back-level DLSw, or a vendor-specific flow control method. Whether it is xBusy or not can be inferred from dlsWTCConnOperPartnerVersion."  
::= { dlsWTCConnOperEntry 8 }

--

.....  
dlsWTConnOperPartnerVersion OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 2))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies which version (first octet) and release (second octet) of the DLSw standard is supported by this partner DLSw. This information is obtained from a DLSw capabilities exchange message received from the partner DLSw. A string of zero length is returned before a Capabilities Exchange message is received, or if one is never received. A conceptual row with a dlsWTConnOperState of `connected' but a zero length partner version indicates that the partner is a non-standard DLSw partner.

If an implementation chooses to keep dlsWTConnOperEntry in the `disconnected' state, this value should remain unchanged."

REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlsWTConnOperEntry 9 }

dlsWTConnOperPartnerVendorID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 3))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the IEEE-assigned organizationally Unique Identifier (OUI) of the maker of this partner DLSw. This information is obtained from a DLSw capabilities exchange message received from the partner DLSw. A string of zero length is returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlsWTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlsWTConnOperEntry 10 }

dlsWTConnOperPartnerVersionStr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..253))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the particular product version (e.g., product name, code level, fix



level) of this partner DLSw.

The format of the actual version string is vendor-specific.

This information is obtained from a DLSw capabilities exchange message received from the partner DLSw.

A string of zero length is returned before a Capabilities Exchange message is received, if one is never received, or if one is received but it does not contain a version string.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

#### REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswTConnOperEntry 11 }

dlswTConnOperPartnerInitPacingWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of the partner initial receive pacing window. This is our initial send pacing window for all new circuits on this transport connection, as modified and granted by

the first flow

control indication the partner sends on each circuit.

This information is obtained from a DLSw capabilities exchange message received from the partner DLSw.

A value of zero is returned before a Capabilities

Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

#### REFERENCE

"DLSW: Switch-to-Switch Protocol RFC 1795"

::= { dlswTConnOperEntry 12 }

-- .....

dlswTConnOperPartnerSapList OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 16))

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The Supported SAP List received in the capabilities exchange message from the partner DLSw. This list has the same format described for dlswTConnConfigSapList.

A string of zero length is returned before a Capabilities

Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 13 }

#### dlswTConnOperPartnerNBExcl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of true signifies that the NetBIOS names received from this partner in the NetBIOS name list in its capabilities exchange message are the only NetBIOS names reachable by that partner. `False' indicates that other NetBIOS names may be reachable. `False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a NB Name Exclusivity CV.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 14 }

#### dlswTConnOperPartnerMacExcl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of true signifies that the MAC addresses received from this partner in the MAC address list in its capabilities exchange message are the only MAC addresses reachable by that partner. `False' indicates that other MAC addresses may be reachable. `False' should be returned before a Capabilities Exchange message is received, if one is never received, or if one is received without a MAC Address Exclusivity CV.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 15 }

#### dlswTConnOperPartnerNBInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept

partial (2), -- partial list is kept

complete (3), -- complete list is kept

notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DLSw whether to keep either none, some, or all of the NetBIOS name list that was received in the capabilities exchange message sent by this partner DLSw.

This object identifies how much information was kept by this DLSw. These names are stored as userConfigured remote entries in dlswDirNBTable.

A value of (4), notApplicable, should be returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 16 }

dlswTConnOperPartnerMacInfo OBJECT-TYPE

SYNTAX INTEGER {

none (1), -- none is kept

partial (2), -- partial list is kept

complete (3), -- complete list is kept

notApplicable (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"It is up to this DLSw whether to keep either none, some, or all of the MAC address list that was received in the capabilities exchange message sent by this partner DLSw.

This object identifies how much information was kept by this DLSw. These names are stored as userConfigured remote entries in dlswDirMACTable.

A value of (4), notApplicable, should be returned before a Capabilities Exchange message is received, or if one is never received.

If an implementation chooses to keep dlswTConnOperEntry in the `disconnected' state, this value should remain unchanged."

::= { dlswTConnOperEntry 17 }

-- .....

-- Information about the last disconnect of this transport connection.

-- These objects

make sense only for implementations that keep

-- transport connection information around after disconnection.

-- .....

dlswTConnOperDiscTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The amount of time (in hundredths of a second) since the  
dlswTConnOperState last entered `disconnected' state."  
::= { dlswTConnOperEntry 18 }

dlswTConnOperDiscReason OBJECT-TYPE

SYNTAX INTEGER {  
other (1),  
capExFailed (2),  
transportLayerDisc (3),  
operatorCommand (4),  
lastCircuitDiscd (5),  
protocolError (6)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object signifies the reason that either prevented the  
transport connection from entering the connected state, or  
caused the transport

connection to enter the disconnected  
state."

::= { dlswTConnOperEntry 19 }

dlswTConnOperDiscActiveCir OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of circuits active (not in DISCONNECTED state)  
at the time the transport connection was last disconnected.  
This value is zero if the transport connection has never  
been connected."

::= { dlswTConnOperEntry 20 }

-- .....

-- Transport Connection Statistics

-- (1) Traffic counts

-- .....

dlswTConnOperInDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of

type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection."

::= { dlsWTConnOperEntry 21 }

dlsWTConnOperOutDataPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection."

::= { dlsWTConnOperEntry 22 }

dlsWTConnOperInDataOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this transport connection. Each message is counted starting with the first octet following the SSP message header."

::= { dlsWTConnOperEntry 23 }

dlsWTConnOperOutDataOctets OBJECT-TYPE

SYNTAX Counter32

UNITS "octets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number octets in Switch-to-Switch Protocol (SSP) messages of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this transport connection. Each message is counted starting with the first octet following the SSP message header."

::= { dlsWTConnOperEntry 24 }

dlsWTConnOperInCntlPkts OBJECT-TYPE

SYNTAX Counter32

UNITS "SSP messages"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Switch-to-Switch Protocol (SSP) messages received on this transport connection which were not of type DGRMFRAME, DATAFRAME, or INFOFRAME."

```
::= { dlswTConnOperEntry 25 }
```

```
dlswTConnOperOutCntlPkts OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
UNITS "SSP messages"
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of Switch-to-Switch Protocol (SSP) messages of  
transmitted on this transport connection which were not of  
type DGRMFRAME, DATAFRAME,  
or INFOFRAME."
```

```
::= { dlswTConnOperEntry 26 }
```

```
-- .....  
-- (2) Directory activities (Explorer messages)  
-- .....
```

```
dlswTConnOperCURExSents OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of CanUReach_ex messages sent on this transport  
connection."
```

```
::= { dlswTConnOperEntry 27 }
```

```
dlswTConnOperICRexRcvds OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of ICanReach_ex messages received on this transport  
connection."
```

```
::= { dlswTConnOperEntry 28 }
```

```
dlswTConnOperCURExRcvds OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of CanUReach_ex messages received on this transport  
connection."
```

```
::= { dlswTConnOperEntry 29 }
```

```
dlswTConnOperICRexSents
```

```
OBJECT-TYPE
```

```
SYNTAX Counter32
```

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of ICanReach\_ex messages sent on this transport  
connection."  
::= { dlswTConnOperEntry 30 }

-- .....

dlswTConnOperNQexSents OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NetBIOS\_NQ\_ex (NetBIOS Name Query-explorer)  
messages sent on this transport connection."  
::= { dlswTConnOperEntry 31 }

dlswTConnOperNRexRcvds OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NR\_ex (NetBIOS Name Recognized-explorer)  
messages received on this transport connection."  
::= { dlswTConnOperEntry 32 }

dlswTConnOperNQexRcvds OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NQ\_ex messages received on this  
transport connection."  
::= { dlswTConnOperEntry 33 }

dlswTConnOperNRexSents OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of NETBIOS\_NR\_ex messages sent on this transport  
connection."  
::= { dlswTConnOperEntry 34 }

-- .....

-- (3) Circuit activities on each transport connection

-- .....

```

dlsWTConnOperCirCreates OBJECT-TYPE
  SYNTAX Counter32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The number of times that circuits entered `circuit_established'
    state (not counting transitions from `circuit_restart')."
  ::= { dlsWTConnOperEntry 35 }

```

```

dlsWTConnOperCircuits OBJECT-TYPE
  SYNTAX Gauge32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The number of currently active circuits on this transport
    connection, where `active' means not in `disconnected' state."
  ::= { dlsWTConnOperEntry 36 }

```

```

-----
-- Transport Connection Specific
-----
dlsWTConnSpecific OBJECT IDENTIFIER ::= { dlsWTConn 4 }
dlsWTConnTcp OBJECT IDENTIFIER ::= { dlsWTConnSpecific 1 }

```

```

-- .....
-- TCP Transport Connection Specific - Configuration
-- .....
dlsWTConnTcpConfigTable OBJECT-TYPE
  SYNTAX SEQUENCE OF DlsWTConnTcpConfigEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "This table defines the TCP transport connections that
    will be either initiated by or accepted by this DSLw.
    It augments the entries in dlsWTConnConfigTable
    whose domain
    is dlsWTCPDomain."
  ::= { dlsWTConnTcp 1 }

```

```

dlsWTConnTcpConfigEntry OBJECT-TYPE
  SYNTAX DlsWTConnTcpConfigEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "Each conceptual row defines parameters that are
    specific to dlsWTCPDomain transport connections."
  INDEX { dlsWTConnConfigIndex }

```



```
::= { dlswTConnTcpConfigTable 1 }
```

```
DlswTConnTcpConfigEntry ::= SEQUENCE {  
    dlswTConnTcpConfigKeepAliveInt    INTEGER,  
    dlswTConnTcpConfigTcpConnections  INTEGER,  
    dlswTConnTcpConfigMaxSegmentSize  INTEGER  
}
```

```
dlswTConnTcpConfigKeepAliveInt OBJECT-TYPE  
SYNTAX    INTEGER (0..1800)  
UNITS     "seconds"  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION  
    "The time in seconds between TCP keepAlive messages when  
    no traffic is flowing. Zero signifies no keepAlive protocol.  
    Changes take effect only for new TCP connections."
```

```
DEFVAL { 0 }
```

```
::= { dlswTConnTcpConfigEntry  
1 }
```

```
dlswTConnTcpConfigTcpConnections OBJECT-TYPE  
SYNTAX    INTEGER (1..16)  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION  
    "This is our preferred number of TCP connections within a  
    TCP transport connection. The actual number used is negotiated  
    at capabilities exchange time. Changes take effect only  
    for new transport connections."
```

```
DEFVAL { 2 }
```

```
::= { dlswTConnTcpConfigEntry 2 }
```

```
dlswTConnTcpConfigMaxSegmentSize OBJECT-TYPE  
SYNTAX    INTEGER (0..65535)  
UNITS     "packets"  
MAX-ACCESS read-create  
STATUS    current  
DESCRIPTION
```

```
    "This is the number of bytes that this node is  
    willing to receive over the read TCP connection(s).  
    Changes take effect for new transport connections."
```

```
DEFVAL { 4096 }
```

```
::= { dlswTConnTcpConfigEntry 3 }
```

```
-- .....  
-- TCP Transport Connection Specific - Operation
```

```

-- .....
dlsWTCnnTcPOperTable
OBJECT-TYPE
SYNTAX SEQUENCE OF DlsWTCnnTcPOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A list of TCP transport connections. It is optional
    but desirable for the agent to keep an entry for some
    period of time after the transport connection is
    disconnected. This allows the manager to capture
    additional useful information about the connection, in
    particular, statistical information and the cause of the
    disconnection."
 ::= { dlsWTCnnTcP 2 }

dlsWTCnnTcPOperEntry OBJECT-TYPE
SYNTAX DlsWTCnnTcPOperEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    ""
INDEX { dlsWTCnnOperTDomain, dlsWTCnnOperRemoteTAddr }
 ::= { dlsWTCnnTcPOperTable 1 }

DlsWTCnnTcPOperEntry ::= SEQUENCE {
    dlsWTCnnTcPOperKeepAliveInt    INTEGER,
    dlsWTCnnTcPOperPrefTcPConnections
        INTEGER,
    dlsWTCnnTcPOperTcPConnections    INTEGER
}

dlsWTCnnTcPOperKeepAliveInt OBJECT-TYPE
SYNTAX INTEGER (0..1800)
UNITS "seconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
    no traffic is flowing. Zero signifies no keepAlive protocol is
    operating."
 ::= { dlsWTCnnTcPOperEntry 1 }

dlsWTCnnTcPOperPrefTcPConnections OBJECT-TYPE
SYNTAX INTEGER (1..16)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"This is the number of TCP connections preferred by this DLSw partner, as received in its capabilities exchange message."  
 ::= { dlswTConnTcpOperEntry 2 }

dlswTConnTcpOperTcpConnections OBJECT-TYPE

SYNTAX INTEGER (1..16)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is the actual current number of TCP connections within this transport connection."

::= { dlswTConnTcpOperEntry 3 }

-- \*\*\*\*\*  
-- DLSW INTERFACE GROUP  
-- \*\*\*\*\*

dlswIfTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswIfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The list of interfaces on which DLSw is active."

::= { dlswInterface 1 }

dlswIfEntry OBJECT-TYPE

SYNTAX DlswIfEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { ifIndex }

::= { dlswIfTable 1 }

DlswIfEntry ::= SEQUENCE {

dlswIfRowStatus RowStatus,

dlswIfVirtualSegment INTEGER,

dlswIfSapList OCTET STRING

}

dlswIfRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create or delete the row entry in the dlswIfTable"

following the  
RowStatus textual convention."

```
::= { dlsWIfEntry 1 }
```

dlsWIfVirtualSegment OBJECT-TYPE

```
SYNTAX INTEGER (0..4095 | 65535)
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The segment number that uniquely identifies the virtual segment to which this DLSw interface is connected.

Current source routing protocols limit this value to the range 0 - 4095. (The value 0 is used by some management applications for special test cases.)

A value of 65535 signifies that no virtual segment is assigned to this interface. For instance, in a non-source routing environment, segment number assignment is not required."

```
DEFVAL { 65535 }
```

```
::= { dlsWIfEntry 2 }
```

dlsWIfSapList OBJECT-TYPE

```
SYNTAX OCTET STRING (SIZE(16))
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The SAP list indicates which SAPs are allowed to be data link switched through this interface.

This list

has the same format described for dlsWtConnConfigSapList.

When changes to this object take effect is implementation-specific. Turning off a particular SAP can destroy active circuits that are using that SAP. An agent implementation may reject such changes until there are no active circuits if it so chooses. In this case, it is up to the manager to close the circuits first, using dlsWcircuitState.

The DEFVAL below indicates support for SAPs 0, 4, 8, and C."

```
DEFVAL { 'AA0000000000000000000000000000'H }
```

```
::= { dlsWIfEntry 3 }
```

```
-- *****
```

```
-- DIRECTORY
```

```
-- Directory services caches the locations of MAC addresses
```

```
-- and NetBIOS names. For resources which are attached via
```

```
-- local interfaces, the ifIndex may be cached, and for
-- resources which are reachable via a DLSw partner, the
-- transport address of the DLSw partner is cached.
--
*****
```

```
-----
-- Directory Related Statistical Objects
-----
```

```
dlswDirStat OBJECT IDENTIFIER ::= { dlswDirectory 1 }
```

```
dlswDirMacEntries OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The current total number of entries in the dlswDirMacTable."
```

```
::= { dlswDirStat 1 }
```

```
dlswDirMacCacheHits OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of times a cache search for a particular MAC address
resulted in success."
```

```
::= { dlswDirStat 2 }
```

```
dlswDirMacCacheMisses OBJECT-TYPE
```

```
SYNTAX Counter32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The number of times a cache search for a particular MAC address
resulted in failure."
```

```
::= { dlswDirStat 3 }
```

```
dlswDirMacCacheNextIndex OBJECT-TYPE
```

```
SYNTAX INTEGER (0..2147483647)
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"The next value of dlswDirMacIndex to be assigned by
the agent. A retrieval of this object atomically reserves
the returned value for use by the manager to create a row
in dlswDirMacTable. This makes it possible for the agent
to control the index space of the MAC address cache, yet
allows the manager to administratively create new rows."
```

```
::= { dlswDirStat 4 }
```

dlswDirNBEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current total number of entries in the dlswDirNBTable."

```
::= { dlswDirStat 5 }
```

dlswDirNBCacheHits OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in success."

```
::= { dlswDirStat 6 }
```

dlswDirNBCacheMisses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times a cache search for a particular NetBIOS name resulted in failure."

```
::= { dlswDirStat 7 }
```

dlswDirNBCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlswDirNBIndex to be assigned by the agent. A retrieval of this object atomically reserves the returned value for use by the manager to create a row in dlswDirNBTable. This makes it possible for the agent to control the index space for the NetBIOS name cache, yet allows the manager to administratively create new rows."

```
::= { dlswDirStat 8 }
```

```
-----  
-- Directory Cache  
-----
```

dlswDirCache

```

OBJECT IDENTIFIER ::= { dlswDirectory 2 }

-- .....
-- Directory for MAC Addresses.
-- All Possible combinations of values of these objects.
--
--   EntryType  LocationType  Location  Status
-- -----
-- userConfigured  local  ifEntry or 0.0  reachable, or
--                                     notReachable, or
--                                     unknown
-- userConfigured  remote  TConnConfigEntry  reachable, or
--                                     notReachable, or
--                                     unknown
-- partnerCapExMsg  remote  TConnOperEntry  unknown
-- dynamic          local  ifEntry or 0.0  reachable
-- dynamic          remote  TConnOperEntry  reachable
-- .....

```

```

dlswDirMacTable
OBJECT-TYPE
SYNTAX SEQUENCE OF DlswDirMacEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table contains locations of MAC addresses.
    They could be either verified or not verified,
    local or remote, and configured locally or learned
    from either Capabilities Exchange messages or
    directory searches."
 ::= { dlswDirCache 1 }

```

```

dlswDirMacEntry OBJECT-TYPE
SYNTAX DlswDirMacEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Indexed by dlswDirMacIndex."
INDEX { dlswDirMacIndex }
 ::= { dlswDirMacTable 1 }

```

```

DlswDirMacEntry ::= SEQUENCE {
    dlswDirMacIndex    INTEGER,
    dlswDirMacMac      MacAddressNC,
    dlswDirMacMask     MacAddressNC,
    dlswDirMacEntryType  INTEGER,
    dlswDirMacLocationType  INTEGER,
    dlswDirMacLocation  RowPointer,

```

dlswDirMacStatus INTEGER,  
dlswDirMacLFSize  
LFSize,  
dlswDirMacRowStatus RowStatus  
}

dlswDirMacIndex OBJECT-TYPE  
SYNTAX INTEGER (0..2147483647)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Uniquely identifies a conceptual row of this table."  
 ::= { dlswDirMacEntry 1 }

dlswDirMacMac OBJECT-TYPE  
SYNTAX MacAddressNC  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The MAC address, together with the dlswDirMacMask,  
specifies a set of MAC addresses that are defined or  
discovered through an interface or partner DLSw nodes."  
 ::= { dlswDirMacEntry 2 }

dlswDirMacMask OBJECT-TYPE  
SYNTAX MacAddressNC  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The MAC address mask, together with the dlswDirMacMac,  
specifies a set of MAC addresses that are defined or  
discovered through an interface or partner DLSw nodes."  
DEFVAL { 'FFFFFFFFFFFF'H }  
 ::= { dlswDirMacEntry 3 }

dlswDirMacEntryType  
OBJECT-TYPE  
SYNTAX INTEGER {  
other (1),  
userConfiguredPublic (2),  
userConfiguredPrivate (3),  
partnerCapExMsg (4),  
dynamic (5)  
}

MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"The cause of the creation of this conceptual row."



It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line or equivalent methods; (2) learned from the partner DLSw Capabilities Exchange messages; and (3) dynamic, e.g., learned from ICanReach messages, or LAN explorer frames. Since only individual MAC addresses can be dynamically learned, dynamic entries will all have a mask of all FFs.

The public versus private distinction for user-configured resources applies only to local resources (UC remote

resources are private), and indicates whether that resource should be advertised in capabilities exchange messages sent by this node."  
DEFVAL { userConfiguredPublic }  
::= { dlswDirMacEntry 4 }

dlswDirMacLocationType OBJECT-TYPE

SYNTAX INTEGER {  
    other          (1),  
    local          (2),  
    remote         (3)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The location of the resource (or a collection of resources using a mask) of this conceptual row is either (1) local - the resource is reachable via an interface, or (2) remote - the resource is reachable via a partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlswDirMacEntry 5 }

dlswDirMacLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlswTConnConfigEntry, dlswTConnOperEntry, 0.0, or something that is implementation specific. It identifies the location of the MAC address (or the collection of MAC addresses.)"

DEFVAL { null }

::= { dlswDirMacEntry 6 }

dlsDirMacStatus OBJECT-TYPE

```
SYNTAX INTEGER {
    unknown      (1),
    reachable    (2),
    notReachable (3)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies whether DLSw currently believes the MAC address to be accessible at the specified location. The value `notReachable' allows a configured resource definition to be taken out of service when a search to that resource fails (avoiding a repeat of the search)."

DEFVAL { unknown }

::= { dlsDirMacEntry 7 }

dlsDirMacLFSize OBJECT-TYPE

```
SYNTAX LFSize
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The largest size of the MAC INFO field (LLC header and data) that a circuit to the MAC address can carry through this path."

DEFVAL { ifs65535 }

::= { dlsDirMacEntry 8 }

dlsDirMacRowStatus OBJECT-TYPE

```
SYNTAX RowStatus
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by the manager to create or delete the row entry in the dlsDirMacTable following the RowStatus textual convention."

::= { dlsDirMacEntry 9 }

```
-- .....
-- Directory for NetBIOS Names
-- All Possible combinations of values of these objects.
--
-- EntryType LocationType Location Status
-- -----
-- userConfigured local ifEntry or 0.0 reachable, or
-- notReachable, or
-- unknown
```

```

-- userConfigured remote TConnConfigEntry
   reachable, or
--
--                               notReachable, or
--                               unknown
-- partnerCapExMsg remote TConnOperEntry unknown
-- dynamic local ifEntry or 0.0 reachable
-- dynamic remote TConnOperEntry reachable
--
--

```

```

-- .....

```

```

dlswDirNBTable OBJECT-TYPE
  SYNTAX SEQUENCE OF DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "This table contains locations of NetBIOS names.
    They could be either verified or not verified,
    local or remote, and configured locally or learned
    from either Capabilities Exchange messages or
    directory searches."
  ::= { dlswDirCache 2 }

```

```

dlswDirNBEntry OBJECT-TYPE
  SYNTAX DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "Indexed by dlswDirNBIndex."
  INDEX {
  dlswDirNBIndex }
  ::= { dlswDirNBTable 1 }

```

```

DlswDirNBEntry ::= SEQUENCE {
  dlswDirNBIndex INTEGER,
  dlswDirNBName NBName,
  dlswDirNBNameType INTEGER,
  dlswDirNBEntryType INTEGER,
  dlswDirNBLocationType INTEGER,
  dlswDirNBLocation RowPointer,
  dlswDirNBStatus INTEGER,
  dlswDirNBLFSize LFSize,
  dlswDirNBRowStatus RowStatus
}

```

```

dlswDirNBIndex OBJECT-TYPE
  SYNTAX INTEGER (0..2147483647)
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION

```

"Uniquely identifies a conceptual row of this table."

::= { dlswDirNBEntry 1 }

dlswDirNBName OBJECT-TYPE

SYNTAX NBName

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The NetBIOS name (including `any char' and `wildcard' characters) specifies a set of NetBIOS names that are defined or discovered through an interface or partner DLSw nodes."

::= { dlswDirNBEntry

2 }

dlswDirNBNameType OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

individual (2),

group (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Whether dlswDirNBName represents an (or a set of) individual or group NetBIOS name(s)."

DEFVAL { unknown }

::= { dlswDirNBEntry 3 }

dlswDirNBEntryType OBJECT-TYPE

SYNTAX INTEGER {

other (1),

userConfiguredPublic (2),

userConfiguredPrivate (3),

partnerCapExMsg (4),

dynamic (5)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The cause of the creation of this conceptual row.

It could be one of the three methods: (1) user configured, including via management protocol set operations, configuration file, command line, or equivalent methods; (2) learned from the partner DLSw Capabilities

Exchange messages;

and (3) dynamic, e.g., learned from ICanReach

messages, or test frames. Since only actual NetBIOS names can be dynamically learned, dynamic entries will not contain any char or wildcard characters.

The public versus private distinction for user-configured resources applies only to local resources (UC remote resources are private), and indicates whether that resource should be advertised in capabilities exchange messages sent by this node."

DEFVAL { userConfiguredPublic }

::= { dlswDirNBEntry 4 }

dlswDirNBLocationType OBJECT-TYPE

SYNTAX INTEGER {

other (1),

local (2),

remote (3)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The location of the resource (or a collection of resources using any char/wildcard characters) of this conceptual row is either

- (1) local - the resource is reachable via an interface, or (2) remote - the resource is reachable via a partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlswDirNBEntry 5 }

dlswDirNBLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Points to either the ifEntry, dlswTConnConfigEntry, dlswTConnOperEntry, 0.0, or something that is implementation specific. It identifies the location of the NetBIOS name or the set of NetBIOS names."

DEFVAL { null }

::= { dlswDirNBEntry 6 }

dlswDirNBStatus OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

reachable (2),

notReachable (3)

```

}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "This object specifies whether DLSw currently believes
    the NetBIOS name to be accessible at the specified location.
    The value `notReachable' allows a configured resource
    definition to be taken out of service when a search to
    that resource fails (avoiding a repeat of the search)."
```

```

DEFVAL { unknown }
::= { dlswDirNBEntry 7 }
```

dlswDirNBLFSize OBJECT-TYPE

```

SYNTAX LFSize
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "The largest size of the MAC INFO field (LLC header and data)
    that a circuit to the NB name can carry through this path."
```

```

DEFVAL { lfs65535 }
::= { dlswDirNBEntry 8 }
```

dlswDirNBRowStatus OBJECT-TYPE

```

SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "This object is used by manager to create
    or delete the row entry in the dlswDirNBTable
    following the RowStatus textual convention."
```

```

::= { dlswDirNBEntry 9 }
```

```

-----
-- Resource Locations
-----
```

```

dlswDirLocate
    OBJECT IDENTIFIER ::= { dlswDirectory 3 }
```

```

-- .....
-- Locate Entries in the dlswDirMacTable for a given MAC address
-- .....
```

dlswDirLocateMacTable OBJECT-TYPE

```

SYNTAX SEQUENCE OF DlswDirLocateMacEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
```

```

    "This table is used to retrieve all entries in the
```

dlsDirMacTable that match a given MAC address,  
in the order of the best matched first, the  
second best matched second, and so on, till  
no more entries match the given MAC address."

::= { dlsDirLocate 1 }

dlsDirLocateMacEntry OBJECT-TYPE

SYNTAX DlsDirLocateMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlsDirLocateMacMac and dlsDirLocateMacMatch.

The first object is the MAC address of interest,

and

the second object is the order in the list of all

entries that match the MAC address."

INDEX { dlsDirLocateMacMac, dlsDirLocateMacMatch }

::= { dlsDirLocateMacTable 1 }

DlsDirLocateMacEntry ::= SEQUENCE {

dlsDirLocateMacMac MacAddressNC,

dlsDirLocateMacMatch INTEGER,

dlsDirLocateMacLocation RowPointer

}

dlsDirLocateMacMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The MAC address to be located."

::= { dlsDirLocateMacEntry 1 }

dlsDirLocateMacMatch OBJECT-TYPE

SYNTAX INTEGER (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The order of the entries of dlsDirMacTable  
that match dlsDirLocateMacMac. A value of  
one represents the entry that best matches the  
MAC address. A value of two represents the second  
best matched entry, and so on."

::= { dlsDirLocateMacEntry 2 }

dlsDirLocateMacLocation OBJECT-TYPE

SYNTAX RowPointer

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Points to the dlswDirMacEntry."
 ::= { dlswDirLocateMacEntry 3 }

-- .....
-- Locate Entries in the dlswDirNBTable for a given NetBIOS name
-- .....

dlswDirLocateNBTable OBJECT-TYPE
SYNTAX SEQUENCE OF DlswDirLocateNBEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "This table is used to retrieve all entries in the
    dlswDirNBTable that match a given NetBIOS name,
    in the order of the best matched first, the
    second best matched second, and so on, till
    no more entries match the given NetBIOS name."
 ::= { dlswDirLocate 2 }

dlswDirLocateNBEntry OBJECT-TYPE
SYNTAX DlswDirLocateNBEntry
MAX-ACCESS not-accessible

STATUS current
DESCRIPTION
    "Indexed by dlswDirLocateNBName and dlswDirLocateNBMatch.
    The first object is the NetBIOS name of interest, and
    the second object is the order in the list of all
    entries that match the NetBIOS name."
INDEX { dlswDirLocateNBName, dlswDirLocateNBMatch }
 ::= { dlswDirLocateNBTable 1 }

DlswDirLocateNBEntry ::= SEQUENCE {
    dlswDirLocateNBName NBName,
    dlswDirLocateNBMatch INTEGER,
    dlswDirLocateNBLocation RowPointer
}

dlswDirLocateNBName OBJECT-TYPE
SYNTAX NBName
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The NetBIOS name to be located (no any char or wildcards)."
 ::= { dlswDirLocateNBEntry 1 }

```



dlswDirLocateNBMatch OBJECT-TYPE  
 SYNTAX INTEGER (1..255)  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "The order of the entries of dlswDirNBTable  
 that match dlswDirLocateNBName. A value of  
 one represents the entry that best matches the  
 NetBIOS name. A value of two represents the second  
 best matched entry, and so on."  
 ::= { dlswDirLocateNBEntry 2 }

dlswDirLocateNBLocation OBJECT-TYPE  
 SYNTAX RowPointer  
 MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "Points to the dlswDirNBEntry."  
 ::= { dlswDirLocateNBEntry 3 }

```
-- *****
-- CIRCUIT
-- A circuit is the end-to-end association of two DLSw entities
-- through one or two DLSw nodes. It is the concatenation of
-- two "data links", optionally with an intervening transport
-- connection. The origin of the circuit is the end station that
-- initiates the circuit. The target of the circuit is the end
-- station that receives the initiation.
-- *****
```

```
-----
-- Statistics Related to
-- Circuits
-----
```

dlswCircuitStat OBJECT IDENTIFIER ::= { dlswCircuit 1 }

dlswCircuitStatActives OBJECT-TYPE  
 SYNTAX Gauge32  
 MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "The current number of circuits in dlswCircuitTable that are  
 not in the disconnected state."  
 ::= { dlswCircuitStat 1 }

dlswCircuitStatCreates OBJECT-TYPE  
 SYNTAX Counter32

MAX-ACCESS read-only  
 STATUS current  
 DESCRIPTION  
 "The total number of entries ever added to dlswCircuitTable,  
 or reactivated upon exiting `disconnected' state."  
 ::= { dlswCircuitStat 2 }

-----  
 -- Circuit Table  
 --  
 -- This table is the DLSw entity's view of circuits. There will be  
 -- a conceptual row in the table associated with each data link.  
 --  
 -- The chart below lists the various possible combinations of  
 -- origin and target MAC  
 locations and the number of entries in  
 -- this Circuit Table:  
 --  
 --        number of    |    Origin End Station Location  
 --        entries in the |-----  
 --        Circuit Table | internal    local    remote  
 --        ----- |-----  
 -- Target | internal |    NA       2       1  
 -- End    | local    |    2       2       1  
 -- Station | remote |    1       1       NA  
 -- Location |        |  
 --  
 --    NA: Not applicable  
 --  
 -- Note:  
 -- (a) IfIndex and RouteInfo are applied only if location is local.  
 -- (b) TDomain and TAddr are applied only if location is remote.  
 --  
 -- Most of statistics related to circuits can be collected  
 -- from LLC-2 Link Station Table.

-----  
 dlswCircuitTable OBJECT-TYPE  
 SYNTAX SEQUENCE OF DlswCircuitEntry  
 MAX-ACCESS not-accessible  
 STATUS  
 current  
 DESCRIPTION  
 "This table is the circuit representation in the DLSw  
 entity. Virtual data links are used to represent any internal  
 end stations. There is a conceptual row associated with  
 each data link. Thus, for circuits without an intervening  
 transport connection, there are two conceptual rows

for each circuit.

The table consists of the circuits being established, established, and as an implementation option, circuits that have been disconnected. For circuits carried over transport connections, an entry is created after the CUR\_cs was sent or received. For circuits between two locally attached devices, or internal virtual MAC addresses, an entry is created when the equivalent of CUR\_cs sent/received status is reached.

End station 1 (S1) and End station 2 (S2) are used to represent the two end stations of the circuit.

S1 is always

an end station which is locally attached.

S2 may be locally attached or remote. If it is locally attached, the circuit will be represented by two rows indexed by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

The table may be used to store the causes of disconnection of circuits. It is recommended that the oldest disconnected circuit entry be removed from this table when the memory space of disconnected circuits is needed."

::= { dlsuCircuit 2 }

dlsuCircuitEntry OBJECT-TYPE

SYNTAX DlsuCircuitEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlsuCircuitS1Mac,  
dlsuCircuitS1Sap,  
dlsuCircuitS2Mac,  
dlsuCircuitS2Sap }

::= { dlsuCircuitTable 1 }

DlsuCircuitEntry ::= SEQUENCE {

dlsuCircuitS1Mac        MacAddressNC,

dlsuCircuitS1Sap        OCTET STRING,

dlsuCircuitS1IfIndex    INTEGER,

dlsuCircuitS1DlcType    DlcType,

dlsuCircuitS1RouteInfo    OCTET STRING,

dlsuCircuitS1CircuitId    OCTET STRING,

dlsuCircuitS1Dlc        RowPointer,

dlsuCircuitS2Mac        MacAddressNC,

dlsuCircuitS2Sap        OCTET STRING,

```

dlsuCircuitS2Location      EndStationLocation,
dlsuCircuitS2TDomain       OBJECT IDENTIFIER,
dlsuCircuitS2TAddress      TAddress,
dlsuCircuitS2CircuitId    OCTET STRING,

dlsuCircuitOrigin         INTEGER,

dlsuCircuitEntryTime      TimeTicks,
dlsuCircuitStateTime      TimeTicks,
dlsuCircuitState          INTEGER,

dlsuCircuitPriority        INTEGER,

dlsuCircuitFCSendGrantedUnits  INTEGER,
dlsuCircuitFCSendCurrentWndw   INTEGER,
dlsuCircuitFCRecvGrantedUnits  INTEGER,
dlsuCircuitFCRecvCurrentWndw   INTEGER,
dlsuCircuitFCLargestRecvGranted Gauge32,
dlsuCircuitFCLargestSendGranted
Gauge32,
dlsuCircuitFCHalveWndwSents    Counter32,
dlsuCircuitFCResetOpSents     Counter32,
dlsuCircuitFCHalveWndwRcvds   Counter32,
dlsuCircuitFCResetOpRcvds     Counter32,
dlsuCircuitDiscReasonLocal    INTEGER,
dlsuCircuitDiscReasonRemote   INTEGER,
dlsuCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....
dlsuCircuitS1Mac OBJECT-TYPE
SYNTAX   MacAddressNC
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
 ::= { dlsuCircuitEntry 1 }

dlsuCircuitS1Sap OBJECT-TYPE
SYNTAX   OCTET STRING (SIZE(1))
MAX-ACCESS not-accessible
STATUS   current
DESCRIPTION
    "The SAP at End Station 1 (S1) used for this circuit."
 ::= { dlsuCircuitEntry 2 }

```

dlsuCircuitS1IfIndex  
OBJECT-TYPE  
SYNTAX INTEGER (0..2147483647)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The ifEntry index of the local interface through which S1  
can be reached."  
::= { dlsuCircuitEntry 3 }

dlsuCircuitS1DlcType OBJECT-TYPE  
SYNTAX DlcType  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The DLC protocol in use between the DLSw node and S1."  
::= { dlsuCircuitEntry 4 }

dlsuCircuitS1RouteInfo OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0..30))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"If source-route bridging is in use between the DLSw  
node and S1, this is the routing information field  
describing the path between the two devices.  
Otherwise the value will be an OCTET STRING of  
zero length."  
::= { dlsuCircuitEntry 5 }

dlsuCircuitS1CircuitId OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0 | 8))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Circuit ID assigned by this DLSw node to this circuit.  
The first four octets are the DLC port Id, and  
the second four octets are the Data Link Correlator.  
If the DLSw SSP was not used to establish this circuit,  
the value will be a string of zero length."  
::= { dlsuCircuitEntry 6 }

dlsuCircuitS1Dlc OBJECT-TYPE  
SYNTAX RowPointer  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Points to a conceptual row of the underlying DLC MIB,

```

    which could either be the standard MIBs (e.g., the SDLC),
    or an enterprise-specific DLC MIB."
 ::= { dlswCircuitEntry 7 }

-- .....
-- Information related to the End Station 2 (S2).
-- .....
dlswCircuitS2Mac OBJECT-TYPE
SYNTAX  MacAddressNC
MAX-ACCESS not-accessible
STATUS  current

DESCRIPTION
    "The MAC Address of End Station 2 (S2) used for this circuit."
 ::= { dlswCircuitEntry 8 }

dlswCircuitS2Sap OBJECT-TYPE
SYNTAX  OCTET STRING (SIZE(1))
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "The SAP at End Station 2 (S2) used for this circuit."
 ::= { dlswCircuitEntry 9 }

dlswCircuitS2Location OBJECT-TYPE
SYNTAX  EndStationLocation
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "The location of End Station 2 (S2).
    If the location of End Station 2 is local, the
    interface information will be available in the
    conceptual row whose S1 and S2 are the S2 and
    the S1 of this conceptual row, respectively."
 ::= { dlswCircuitEntry 10 }

dlswCircuitS2TDomain OBJECT-TYPE
SYNTAX  OBJECT IDENTIFIER
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "If the location of End Station 2 is remote,
    this value is the transport domain
of the
    transport protocol the circuit is running
    over. Otherwise, the value is 0.0."
 ::= { dlswCircuitEntry 11 }

```

dlsuCircuitS2TAddress OBJECT-TYPE  
SYNTAX TAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"If the location of End Station 2 is remote,  
this object contains the address of the partner  
DLSw, else it will be an OCTET STRING of zero length."  
 ::= { dlsuCircuitEntry 12 }

dlsuCircuitS2CircuitId OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0 | 8))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Circuit ID assigned to this circuit by the partner  
DLSw node. The first four octets are the DLC port Id, and  
the second four octets are the Data Link Correlator.  
If the DLSw SSP was not used to establish this circuit,  
the value will be a string of zero length."  
 ::= { dlsuCircuitEntry 13 }

-- .....

dlsuCircuitOrigin  
OBJECT-TYPE  
SYNTAX INTEGER {  
s1 (1),  
s2 (2)  
}  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object specifies which of the two end stations  
initiated the establishment of this circuit."  
 ::= { dlsuCircuitEntry 14 }

-- .....

-- Operational information related to this circuit.

-- .....

dlsuCircuitEntryTime OBJECT-TYPE  
SYNTAX TimeTicks  
UNITS "hundredths of a second"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The amount of time (in hundredths of a second) since this  
circuit table conceptual row was created."  
 ::= { dlsuCircuitEntry 15 }

dlsuCircuitStateTime OBJECT-TYPE

SYNTAX TimeTicks

UNITS "hundredths of a second"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The amount of time (in hundredths of a second) since this circuit entered the current state."

::= { dlsuCircuitEntry 16 }

dlsuCircuitState OBJECT-TYPE

SYNTAX INTEGER {

disconnected (1),

circuitStart (2),

resolvePending (3),

circuitPending (4),

circuitEstablished (5),

connectPending (6),

contactPending (7),

connected (8),

disconnectPending (9),

haltPending (10),

haltPendingNoack (11),

circuitRestart (12),

restartPending (13)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The current state of this circuit. The agent, implementation specific, may choose to keep entries for some period of time after circuit disconnect, so the manager can gather the time and cause of disconnection.

While all of the specified values may be returned from a GET operation, the only SETable value is `disconnectPending'.

When this value is set, DLSw should perform the appropriate action given its previous state (e.g., send HALT\_DL if the state was `connected') to bring the circuit down to the `disconnected' state. Both the partner DLSw and local end station(s) should be notified as appropriate.

This MIB provides no facility to re-establish a disconnected circuit, because in DLSw this should be an end station-driven function."

::= { dlsuCircuitEntry 17 }



```

dlsuCircuitPriority OBJECT-TYPE
  SYNTAX  INTEGER {
    unsupported  (1),
    low         (2),
    medium      (3),
    high        (4),
    highest     (5)
  }
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The transmission priority of this circuit as understood by
    this
  DLSw node. This value is determined by the two DLSw
    nodes at circuit startup time. If this DLSw node does not
    support DLSw circuit priority, the value `unsupported' should
    be returned."
  ::= { dlsuCircuitEntry 18 }

-- .....
-- Pacing Objects:
-- These objects are applicable if DLSw is using the SSP circuit
-- pacing protocol to control the flow between the two data links
-- in this circuit.
-- .....

dlsuCircuitFCSendGrantedUnits OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The number of paced SSP messages that this DLSw is currently
    authorized to send on this circuit before it must stop and
    wait for an additional flow control indication from the
    partner DLSw.

    The value zero should be returned if this circuit is not
    running
    the DLSw pacing protocol."
  ::= { dlsuCircuitEntry 19 }

dlsuCircuitFCSendCurrentWndw OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS    current
  DESCRIPTION
    "The current window size that this DLSw is using in its role
    as a data sender. This is the value by which this DLSw would
    increase the number of messages it is authorized to send, if

```

it were to receive a flow control indication with the bits specifying `repeat window'.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current number of paced SSP messages that this DLSw has authorized the partner DLSw to send on this circuit before the partner DLSw must stop and wait for an additional flow

control indication from this DLSw.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw OBJECT-TYPE

SYNTAX INTEGER (0..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current window size that this DLSw is using in its role as a data receiver. This is the number of additional paced SSP messages that this DLSw would be authorizing its DLSw partner to send, if this DLSw were to send a flow control indication with the bits specifying `repeat window'.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest receive window size granted by this DLSw during

the current activation of this circuit. This is not the largest number of messages granted at any time, but the largest window size as represented by FCIND operator bits.

The value zero should be returned if this circuit is not

running the DLSw pacing protocol."  
::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The largest send (with respect to this DLSw) window size granted by the partner DLSw during the current activation of this circuit.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has sent on this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has sent on this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Halve Window operations this DLSw has received on this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."  
::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of Reset Window operations this DLSw has received on this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not running the DLSw pacing protocol."

::= { dlswCircuitEntry 28 }

-- .....  
-- Information about the circuit disconnection

dlswCircuitDiscReasonLocal OBJECT-TYPE

SYNTAX INTEGER {

endStationDiscRcvd (1),

endStationDlcError (2),

protocolError (3),

operatorCommand (4),

haltDIRcvd (5),

haltDINoAckRcvd (6),

transportConnClosed (7)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The reason why this circuit was last disconnected, as seen by this DLSw node.

This object is present only if the agent keeps circuit table entries around for some period after circuit disconnect."

::= { dlswCircuitEntry 29 }

dlswCircuitDiscReasonRemote OBJECT-TYPE

SYNTAX INTEGER {

unknown (1),

endStationDiscRcvd (2),

endStationDlcError (3),

protocolError (4),

operatorCommand (5)

```

}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The generic reason code why this circuit was last
disconnected, as reported by the DLSw partner in a HALT_DL
or HALT_DL_NOACK. If the partner does not send a reason
code in these messages, or the DLSw implementation does
not report receiving one, the value `unknown' is returned.

```

This object is present only if the agent keeps circuit table entries around for some period after circuit disconnect."

```
::= { dlswCircuitEntry 30 }
```

```
dlswCircuitDiscReasonRemoteData OBJECT-TYPE
```

```
SYNTAX OCTET STRING (SIZE (0 | 4))
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"Implementation-specific data reported by the DLSw partner in a HALT\_DL or HALT\_DL\_NOACK, to help specify how and why this circuit was last disconnected. If the partner does not send this data in these messages, or the DLSw implementation does not report receiving it, a string of zero length is returned.

This object is present only if the agent keeps circuit table entries around for some period after circuit disconnect."

```
::= { dlswCircuitEntry 31 }
```

```

-- .....
-- Statistics related to this circuit.
-- All statistics are in LLC-2 Link Station Statistical Table.
-- All SDLC statistics are in SDLC MIB
-- .....

```

```

--
*****
-- DLSW SDLC EXTENSION
-- *****

```

```
dlswSdlcLsEntries OBJECT-TYPE
```

```
SYNTAX Gauge32
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

"The number of entries in dlswSdlcLsTable."

::= { dlswSdlc 1 }

-- .....

dlswSdlcLsTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlswSdlcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The table defines the virtual MAC addresses for those  
SDLC link stations that participate in data link switching."

::= { dlswSdlc 2 }

dlswSdlcLsEntry OBJECT-TYPE

SYNTAX DlswSdlcLsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index of this table is the ifIndex value for the  
SDLC port which owns this link station and the poll  
address of

the particular SDLC link station."

INDEX { ifIndex, sdlcLSAddress }

::= { dlswSdlcLsTable 1 }

DlswSdlcLsEntry ::= SEQUENCE {

dlswSdlcLsLocalMac MacAddressNC,

dlswSdlcLsLocalSap OCTET STRING,

dlswSdlcLsLocalIdBlock DisplayString,

dlswSdlcLsLocalIdNum DisplayString,

dlswSdlcLsRemoteMac MacAddressNC,

dlswSdlcLsRemoteSap OCTET STRING,

dlswSdlcLsRowStatus RowStatus

}

dlswSdlcLsLocalMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The virtual MAC address used to represent the SDLC-attached  
link station to the rest of the DLSw network."

::= { dlswSdlcLsEntry 1 }

dlswSdlcLsLocalSap OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP used to represent this link station."  
::= { dlswSdlcLsEntry 2 }

dlswSdlcLsLocalIdBlock OBJECT-TYPE

SYNTAX DisplayString (SIZE (0 | 3))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The block number is the first three digits of the node\_id, if available. These 3 hexadecimal digits identify the product."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 3 }

dlswSdlcLsLocalIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE (0 | 5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The ID number is the last 5 digits of the node\_id, if available. These 5 hexadecimal digits are administratively defined and combined with the 3 digit block number form the node\_id. This node\_id is used to identify the local node and is included in SNA XIDs."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 4 }

dlswSdlcLsRemoteMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The MAC address to which DLSw should attempt to connect

this link station. If this information is not available, a length of zero for this object should be returned."

DEFVAL { "H" }

::= { dlswSdlcLsEntry 5 }

dlswSdlcLsRemoteSap OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0 | 1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The SAP of the remote station to which this link station should be connected. If this information is not available, a length of zero for this object should be returned."

```
DEFVAL { "H }
::= { dlswSdclLsEntry 6 }
```

dlswSdclLsRowStatus OBJECT-TYPE

```
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
```

"This object is used by the manager to create or delete the row entry in the dlswSdclLsTable following the RowStatus textual convention."

```
::= { dlswSdclLsEntry 7 }
```

```
-- *****
```

```
-- TRAP GENERATION CONTROL
```

```
--
```

```
*****
```

```
dlswTrapControl OBJECT IDENTIFIER ::= { dlswNode 10}
```

dlswTrapCntlTConnPartnerReject OBJECT-TYPE

```
SYNTAX INTEGER {
    enabled (1),
    disabled (2),
    partial (3)
}
```

```
MAX-ACCESS read-write
STATUS current
```

DESCRIPTION

"Indicates whether the DLSw is permitted to emit partner reject related traps. With the value of `enabled` the DLSw will emit all partner reject related traps. With the value of `disabled` the DLSw will not emit any partner reject related traps. With the value of `partial` the DLSw will only emits partner reject traps for CapEx reject. The changes take effect immediately."

```
::= { dlswTrapControl 1 }
```

dlswTrapCntlTConnProtViolation OBJECT-TYPE

```
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
```

"Indicates whether the DLSw is permitted to generate protocol-violation traps on the events such as window size violation. The changes take effect immediately."



::= { dlswTrapControl 2 }

dlswTrapCntlTConn OBJECT-TYPE

SYNTAX INTEGER {

enabled (1),

disabled (2),

partial (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the DLSw is permitted to emit transport connection up and down traps. With the value of `enabled` the DLSw will emit traps when connections enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when connections enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will only emits transport connection down traps when the connection is closed with busy.

The changes take effect immediately."

::= { dlswTrapControl 3 }

dlswTrapCntlCircuit OBJECT-TYPE

SYNTAX INTEGER {

enabled (1),

disabled (2),

partial (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicate whether the DLSw is permitted to generate circuit up and down traps. With the value of `enabled` the DLSw will emit traps when circuits enter `connected` and `disconnected` states. With the value of `disabled` the DLSw will not emit traps when circuits enter of `connected` and `disconnected` states. With the value of `partial` the DLSw will emit traps only for those circuits that are initiated by this DLSw, e.g., originating the CUR\_CS message. The changes take effect immediately."

::= { dlswTrapControl 4 }

-- \*\*\*\*\*

-- NOTIFICATIONS, i.e., TRAP DEFINITIONS

-- \*\*\*\*\*

dlswTraps OBJECT IDENTIFIER

```
::= { dlswMIB 0 }
```

```
-----  
-- This section defines the well-known notifications sent by  
-- DLSW agents.  
-- Care must be taken to insure that no particular notification  
-- is sent to a single receiving entity more often than once  
-- every five seconds.  
--  
-- Traps includes:  
-- (1) Partner rejected (capEx rejection, not in partner list, etc.)  
-- (2) DLSw protocol violation (e.g., window size violation, etc.)  
-- (3) Transport connection up/down  
  
-- (4) Circuit up/down  
-----  
--
```

```
dlswTrapTConnPartnerReject NOTIFICATION-TYPE  
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr  
}  
STATUS current  
DESCRIPTION  
"This trap is sent each time a transport connection  
is rejected by a partner DLSw during Capabilities  
Exchanges. The emission of this trap is controlled  
by dlswTrapCntlTConnPartnerReject."  
::= { dlswTraps  
1 }
```

```
dlswTrapTConnProtViolation NOTIFICATION-TYPE  
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr  
}  
STATUS current  
DESCRIPTION  
"This trap is sent each time a protocol violation is  
detected for a transport connection. The emission of this  
trap is controlled by dlswTrapCntlTConnProtViolation."  
::= { dlswTraps 2 }
```

```
dlswTrapTConnUp NOTIFICATION-TYPE  
OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr  
}  
STATUS current  
DESCRIPTION  
"This trap is sent each time a transport connection  
enters `connected' state. The emission of this trap  
is controlled by dlswTrapCntlTConn."
```

::= { dlswTraps 3 }

dlswTrapTConnDown NOTIFICATION-TYPE

OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }  
}

STATUS current

DESCRIPTION

"This trap is sent each time a transport connection enters `disconnected' state. The emission of this trap is controlled by dlswTrapCntlTConn."

::= { dlswTraps 4 }

dlswTrapCircuitUp NOTIFICATION-TYPE

OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap, dlswCircuitS2Mac, dlswCircuitS2Sap }  
}

STATUS current

DESCRIPTION

"This trap is sent each time a circuit enters `connected' state. The emission of this trap is controlled by dlswTrapCntlCircuit."

::= { dlswTraps 5 }

dlswTrapCircuitDown NOTIFICATION-TYPE

OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap, dlswCircuitS2Mac, dlswCircuitS2Sap }  
}

STATUS current

DESCRIPTION

"This trap is sent each time a circuit enters `disconnected' state. The emission of this trap is controlled by dlswTrapCntlCircuit."

::= { dlswTraps 6 }

-- \*\*\*\*\*

-- CONFORMANCE INFORMATION

-- \*\*\*\*\*

dlswConformance OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances

OBJECT IDENTIFIER ::= { dlswConformance 1 }

dlswGroups OBJECT IDENTIFIER ::= { dlswConformance 2 }

-----

-- COMPLIANCE STATEMENTS

-----

```
-- .....
-- Core compliance for all DLSw entities
-- .....
dlswCoreCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION
"The core compliance statement for all DLSw nodes."
```

```
MODULE
MANDATORY-GROUPS {
    dlswNodeGroup,
    dlswTConnStatGroup,
    dlswTConnConfigGroup,
    dlswTConnOperGroup,
    dlswInterfaceGroup,
    dlswCircuitGroup,
    dlswCircuitStatGroup,
    dlswNotificationGroup }

```

```
GROUP dlswNodeNBGroup
DESCRIPTION
```

```
"The DLSw NetBIOS Node group is mandatory only for
those DLSw entities that implement NetBIOS."
```

```
GROUP dlswTConnNBGroup
DESCRIPTION
```

```
"The DLSw NetBIOS Transport Connection group is
mandatory only for those DLSw entities that
implement NetBIOS."
```

```
OBJECT dlswNodeStatus
MIN-ACCESS read-only
DESCRIPTION
```

```
"Write access is not required."
```

```
OBJECT dlswNodeVirtualSegmentLFSize
MIN-ACCESS read-only
DESCRIPTION
```

```
"Write access is not required."
```

```
OBJECT dlswNodeResourceNBExclusivity
MIN-ACCESS read-only
DESCRIPTION
```

```
"Write access is not required."
```

```
OBJECT dlswNodeResourceMacExclusivity
MIN-ACCESS read-only
DESCRIPTION
```

"Write access is not required."

OBJECT dlswTrapCntlTConnPartnerReject  
MIN-ACCESS  
read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConnProtViolation  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlTConn  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTrapCntlCircuit  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigTDomain  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigLocalTAddr  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigRemoteTAddr  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigEntryType  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigGroupDefinition  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnConfigSetupType

MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigSapList  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigAdvertiseMacNB  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigInitCirRecvWndw  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswTConnConfigRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is  
not required."

OBJECT dlswTConnOperState  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfVirtualSegment  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswIfSapList  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswCircuitState  
MIN-ACCESS read-only  
DESCRIPTION

"Write access is not required."

::= { dlswCompliances 1 }

-- .....  
-- Compliance for all DLSw entities that provide TCP transport.  
-- .....  
dlswTConnTcpCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that use TCP as a  
transport connection protocol."

MODULE

MANDATORY-GROUPS {  
    dlswTConnTcpConfigGroup,  
    dlswTConnTcpOperGroup }

OBJECT dlswTConnTcpConfigKeepAliveInt

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnTcpConfigTcpConnections

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswTConnTcpConfigMaxSegmentSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

::= { dlswCompliances 2 }

-- .....  
-- Compliance for all DLSw Entities that implement a directory  
-- .....  
dlswDirCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide a directory  
function."

MODULE

MANDATORY-GROUPS {  
    dlswDirGroup }

GROUP dlswDirNBGroup

DESCRIPTION

"The DLSw NetBIOS group is mandatory only for those DLSw entities that implement NetBIOS."

OBJECT dlswDirMacMac

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacLFSize

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirMacRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."



OBJECT dlswDirNBNameType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBEntryType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBLocationType  
MIN-ACCESS read-only  
DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocation  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBLFSize  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswDirNBRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { dlswCompliances 3 }

-- .....  
-- Compliance for all DLSw entities that provide an ordered  
-- list of directory entries that match a resource  
-- .....

dlswDirLocateCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide  
an ordered  
list of directory entries for a given resource."

```

MODULE
  MANDATORY-GROUPS {
    dlswDirLocateGroup }

  GROUP dlswDirLocateNBGroup
  DESCRIPTION
    "The DLSw NetBIOS group is mandatory only for
    those DLSw entities that implement NetBIOS."

::= { dlswCompliances 4 }

-- .....
-- Compliance for all DLSw entities that support SDLC end stations
-- .....
dlswSdlcCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that support SDLC."
  MODULE
    MANDATORY-GROUPS {
      dlswSdlcGroup }

    OBJECT dlswSdlcLsLocalMac
      MIN-ACCESS read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT dlswSdlcLsLocalSap
      MIN-ACCESS read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT dlswSdlcLsLocalIdBlock
      MIN-ACCESS read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT dlswSdlcLsLocalIdNum
      MIN-ACCESS read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT dlswSdlcLsRemoteMac
      MIN-ACCESS read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT dlswSdlcLsRemoteSap

```

MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT dlswSdlcLsRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

::= { dlswCompliances 5 }

-----  
-- CONFORMANCE GROUPS  
-----

-----  
--  
Node Conformance Group  
-----

dlswNodeGroup OBJECT-GROUP  
OBJECTS {  
    dlswNodeVersion,  
    dlswNodeVendorID,  
    dlswNodeVersionString,  
    dlswNodeStdPacingSupport,  
    dlswNodeStatus,  
    dlswNodeUpTime,  
    dlswNodeVirtualSegmentLFSize,  
    dlswNodeResourceMacExclusivity,  
    dlswTrapCntlTConnPartnerReject,  
    dlswTrapCntlTConnProtViolation,  
    dlswTrapCntlTConn,  
    dlswTrapCntlCircuit  
}  
STATUS current  
DESCRIPTION  
"Conformance group for DLSw node general information."  
::= { dlswGroups 1 }

-----  
dlswNodeNBGroup OBJECT-GROUP  
OBJECTS {  
    dlswNodeResourceNBExclusivity  
}  
STATUS current  
DESCRIPTION  
"Conformance group for DLSw node general information  
specifically for nodes that support NetBIOS."

```

::=
{ dlswGroups 2 }

-- .....
dlswTConnStatGroup OBJECT-GROUP
OBJECTS {
    dlswTConnStatActiveConnections,
    dlswTConnStatCloseIdles,
    dlswTConnStatCloseBusys
}
STATUS current
DESCRIPTION
    "Conformance group for statistics for transport
    connections."
::= { dlswGroups 3 }

```

```

-- .....
dlswTConnConfigGroup OBJECT-GROUP
OBJECTS {
    dlswTConnConfigTDomain,
    dlswTConnConfigLocalTAddr,
    dlswTConnConfigRemoteTAddr,
    dlswTConnConfigLastModifyTime,
    dlswTConnConfigEntryType,
    dlswTConnConfigGroupDefinition,
    dlswTConnConfigSetupType,
    dlswTConnConfigSapList,
    dlswTConnConfigAdvertiseMacNB,
    dlswTConnConfigInitCirRecvWndw,
    dlswTConnConfigOpens,
    dlswTConnConfigRowStatus
}
STATUS current
DESCRIPTION
    "Conformance
group for the configuration of
    transport connections."
::= { dlswGroups 4 }

```

```

-- .....
dlswTConnOperGroup OBJECT-GROUP
OBJECTS {
    dlswTConnOperLocalTAddr,
    dlswTConnOperEntryTime,
    dlswTConnOperConnectTime,
    dlswTConnOperState,
    dlswTConnOperConfigIndex,
    dlswTConnOperFlowCntlMode,

```

```

dlswTConnOperPartnerVersion,
dlswTConnOperPartnerVendorID,
dlswTConnOperPartnerVersionStr,
dlswTConnOperPartnerInitPacingWndw,
dlswTConnOperPartnerSapList,
dlswTConnOperPartnerMacExcl,
dlswTConnOperPartnerMacInfo,
dlswTConnOperDiscTime,
dlswTConnOperDiscReason,
dlswTConnOperDiscActiveCir,
dlswTConnOperInDataPkts,
dlswTConnOperOutDataPkts,
dlswTConnOperInDataOctets,
dlswTConnOperOutDataOctets,
dlswTConnOperInCntlPkts,
dlswTConnOperOutCntlPkts,
dlswTConnOperCURExSents,
dlswTConnOperICRexRcvds,
dlswTConnOperCURExRcvds,
dlswTConnOperICRexSents,
dlswTConnOperCirCreates,
dlswTConnOperCircuits
}

```

STATUS current

DESCRIPTION

"Conformance group for operation information for transport connections."

::= { dlswGroups 5 }

-- .....

dlswTConnNBGroup OBJECT-GROUP

OBJECTS {

```

dlswTConnOperPartnerNBExcl,
dlswTConnOperPartnerNBInfo,
dlswTConnOperNQexSents,
dlswTConnOperNRexRcvds,
dlswTConnOperNQexRcvds,
dlswTConnOperNRexSents
}

```

STATUS current

DESCRIPTION

"Conformance group for operation information for transport connections, specifically for nodes that support NetBIOS."

::= { dlswGroups 6 }

-- .....

dlswTConnTcpConfigGroup OBJECT-GROUP

OBJECTS {

```

    dlswTConnTcpConfigKeepAliveInt,
    dlswTConnTcpConfigTcpConnections,
    dlswTConnTcpConfigMaxSegmentSize
  }
STATUS current
DESCRIPTION
  "Conformance group for configuration information for
  transport connections using TCP."
::= { dlswGroups 7 }

```

```

-- .....
dlswTConnTcpOperGroup OBJECT-GROUP
OBJECTS {
  dlswTConnTcpOperKeepAliveInt,
  dlswTConnTcpOperPrefTcpConnections,
  dlswTConnTcpOperTcpConnections
}
STATUS current
DESCRIPTION
  "Conformance group for operation information for
  transport connections using TCP."
::= { dlswGroups 8 }

```

```

-- .....
dlswInterfaceGroup OBJECT-GROUP
OBJECTS {
  dlswIfRowStatus,
  dlswIfVirtualSegment,
  dlswIfSapList
}
STATUS current
DESCRIPTION
  "Conformance group for DLSw interfaces."
::= { dlswGroups
9 }

```

```

-- .....
dlswDirGroup OBJECT-GROUP
OBJECTS {
  dlswDirMacEntries,
  dlswDirMacCacheHits,
  dlswDirMacCacheMisses,
  dlswDirMacCacheNextIndex,
  dlswDirMacMac,
  dlswDirMacMask,
  dlswDirMacEntryType,
  dlswDirMacLocationType,
  dlswDirMacLocation,
}

```

```

    dlswDirMacStatus,
    dlswDirMacLFSize,
    dlswDirMacRowStatus
  }
STATUS current
DESCRIPTION
  "Conformance group for DLSw directory using MAC
  addresses."
::= { dlswGroups 10 }

-- .....
dlswDirNBGroup OBJECT-GROUP
OBJECTS {
  dlswDirNBEntries,
  dlswDirNBCacheHits,
  dlswDirNBCacheMisses,
  dlswDirNBCacheNextIndex,
  dlswDirNBName,
  dlswDirNBNameType,
  dlswDirNBEntryType,
  dlswDirNBLocationType,
  dlswDirNBLocation,
  dlswDirNBStatus,
  dlswDirNBLFSize,
  dlswDirNBRowStatus
}
STATUS current
DESCRIPTION
  "Conformance group for DLSw directory using NetBIOS
  names."
::= { dlswGroups 11 }

-- .....
dlswDirLocateGroup OBJECT-GROUP
OBJECTS {
  dlswDirLocateMacLocation
}
STATUS current
DESCRIPTION
  "Conformance group for a node that can return directory
  entry order for a given MAC address."
::= { dlswGroups 12 }

-- .....
dlswDirLocateNBGroup OBJECT-GROUP
OBJECTS {
  dlswDirLocateNBLocation
}

```

STATUS current  
DESCRIPTION  
"Conformance group for a node that can return directory  
entry order for a given NetBIOS name."  
::= { dlswGroups 13 }

-- .....

dlswCircuitStatGroup OBJECT-GROUP

OBJECTS {  
    dlswCircuitStatActives,  
    dlswCircuitStatCreates  
}

STATUS current  
DESCRIPTION  
"Conformance group for statistics about circuits."  
::= { dlswGroups 14 }

-- .....

dlswCircuitGroup OBJECT-GROUP

OBJECTS {  
    dlswCircuitS1IfIndex,  
    dlswCircuitS1DlcType,  
    dlswCircuitS1RouteInfo,  
    dlswCircuitS1CircuitId,  
    dlswCircuitS1Dlc,  
    dlswCircuitS2Location,  
    dlswCircuitS2TDomain,  
    dlswCircuitS2TAddress,  
    dlswCircuitS2CircuitId,  
    dlswCircuitOrigin,  
    dlswCircuitEntryTime,  
    dlswCircuitStateTime,  
    dlswCircuitState,  
    dlswCircuitPriority,  
    dlswCircuitFCSendGrantedUnits,  
    dlswCircuitFCSendCurrentWdw,  
    dlswCircuitFCRecvGrantedUnits,  
    dlswCircuitFCRecvCurrentWdw,  
    dlswCircuitFCLargestRecvGranted,  
    dlswCircuitFCLargestSendGranted,  
    dlswCircuitFCHalveWdwSents,  
    dlswCircuitFCResetOpSents,  
    dlswCircuitFCHalveWdwRcvds,  
    dlswCircuitFCResetOpRcvds,  
    dlswCircuitDiscReasonLocal,  
    dlswCircuitDiscReasonRemote,  
    dlswCircuitDiscReasonRemoteData  
}



```

STATUS current
DESCRIPTION
    "Conformance group for DLSw circuits."
 ::= { dlswGroups 15 }

-- .....
dlswSdlcGroup OBJECT-GROUP
OBJECTS {
    dlswSdlcLsEntries,
    dlswSdlcLsLocalMac,
    dlswSdlcLsLocalSap,
    dlswSdlcLsLocalIdBlock,
    dlswSdlcLsLocalIdNum,
    dlswSdlcLsRemoteMac,
    dlswSdlcLsRemoteSap,
    dlswSdlcLsRowStatus
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw SDLC support."
 ::= { dlswGroups 16 }

```

```

-- .....
dlswNotificationGroup NOTIFICATION-GROUP
NOTIFICATIONS {
    dlswTrapTConnPartnerReject,
    dlswTrapTConnProtViolation,

    dlswTrapTConnUp,
    dlswTrapTConnDown,
    dlswTrapCircuitUp,
    dlswTrapCircuitDown
}
STATUS current
DESCRIPTION
    "Conformance group for DLSw notifications."
 ::= { dlswGroups 17 }

```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB

No license file was found, but licenses were detected in source scan.

MIOX25-MIB DEFINITIONS ::= BEGIN

IMPORTS

Counter,

```

TimeTicks
    FROM RFC1155-SMI
OBJECT-TYPE
    FROM RFC-1212
DisplayString, transmission,
ifIndex
    FROM RFC1213-MIB
InstancePointer
    FROM RFC1316-MIB
X121Address
    FROM RFC1382-MIB
PositiveInteger
    FROM RFC1381-MIB;

    -- IP over X.25 MIB

mioX OBJECT IDENTIFIER ::= { transmission 38 }

mioXPle OBJECT IDENTIFIER ::= { mioX 1 }
mioXPeer OBJECT IDENTIFIER ::= { mioX 2 }

-- #####
--      Ple Table
-- #####

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioXPleTable OBJECT-TYPE
    SYNTAX SEQUENCE OF MioXPleEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "This table contains information relative to
        an interface to an X.25 Packet Level Entity
        (PLE)."
    ::= { mioXPle 1 }

mioXPleEntry OBJECT-TYPE
    SYNTAX MioXPleEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        "These objects manage the encapsulation of
        other protocols within X.25."
    INDEX { ifIndex }
    ::= { mioXPleTable 1 }

```

```

MioxPleEntry ::= SEQUENCE {
    mioxPleMaxCircuits
        INTEGER,
    mioxPleRefusedConnections
        Counter,
    mioxPleEnAddrToX121LkupFlrs
        Counter,
    mioxPleLastFailedEnAddr
        OCTET STRING,
    mioxPleEnAddrToX121LkupFlrTime
        TimeTicks,
    mioxPleX121ToEnAddrLkupFlrs
        Counter,
    mioxPleLastFailedX121Address
        X121Address,
    mioxPleX121ToEnAddrLkupFlrTime
        TimeTicks,
    mioxPleQbitFailures
        Counter,
    mioxPleQbitFailureRemoteAddress
        X121Address,
    mioxPleQbitFailureTime
        TimeTicks,
    mioxPleMinimumOpenTimer
        PositiveInteger,
    mioxPleInactivityTimer
        PositiveInteger,
    mioxPleHoldDownTimer
        PositiveInteger,
    mioxPleCollisionRetryTimer
        PositiveInteger,
    mioxPleDefaultPeerId
        InstancePointer
}

```

mioxPleMaxCircuits OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits that can be open at one time for this interface.

A value of zero indicates the interface will not allow any additional circuits (as it may soon be shutdown). A value of 2147483647 allows an unlimited number of circuits."

::= { mioxPleEntry 1 }

mioxPleRefusedConnections OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of X.25 calls from a remote systems to this system that were cleared by this system. The interface instance should identify the X.25 interface the call came in on."

::= { mioxPleEntry 2 }

mioxPleEnAddrToX121LkupFlrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times a translation from an Encapsulated Address to an X.121 address failed to find a corresponding X.121 address. Encapsulated addresses can be looked up in the mioxPeerTable or translated via an algorithm as for the DDN. Addresses

that are successfully recognized do not increment this counter. Addresses that are not recognized (reflecting an abnormal packet delivery condition) increment this counter.

If an address translation fails, it may be difficult to determine which PLE entry should count the failure. In such cases the first likely entry in this table should be selected. Agents should record the failure even if they are unsure which PLE should be associated with the failure."

::= { mioxPleEntry 3 }

mioxPleLastFailedEnAddr OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(2..128))

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The last Encapsulated address that failed to find a corresponding X.121 address and caused mioxPleEnAddrToX121LkupFlrs

to be

incremented. The first octet of this object contains the encapsulation type, the remaining octets contain the address of that type that failed. Thus for an IP address, the length will be five octets, the first octet will contain 204 (hex CC), and the last four octets will contain the IP address. For a snap encapsulation, the first byte would be 128 (hex 80) and the rest of the octet string would have the snap header."

::= { mioxPleEntry 4 }

mioxPleEnAddrToX121LkupFlrTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The most recent value of sysUpTime when the translation from an Encapsulated Address to X.121 address failed to find a corresponding X.121 address."

::= { mioxPleEntry 5 }

mioxPleX121ToEnAddrLkupFlrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times the translation from an X.121 address to an Encapsulated Address failed to find a corresponding Encapsulated Address. Addresses successfully recognized by an algorithm do not increment this counter. This counter reflects the number of times call acceptance encountered the abnormal condition of not recognizing the peer."

::= { mioxPleEntry 6 }

mioxPleLastFailedX121Address OBJECT-TYPE

SYNTAX X121Address

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The last X.121 address that caused

mioxPleX121ToEnAddrLkupFlrs to increase."  
::= { mioxPleEntry 7 }

mioxPleX121ToEnAddrLkupFlrTime

OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The most recent value of sysUpTime when the translation from an X.121 address to an Encapsulated Address failed to find a corresponding Encapsulated Address."

::= { mioxPleEntry 8 }

mioxPleQbitFailures OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of times a connection was closed because of a Q-bit failure."

::= { mioxPleEntry 9 }

mioxPleQbitFailureRemoteAddress OBJECT-TYPE

SYNTAX X121Address

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The remote address of the most recent (last) connection that was closed because of a Q-bit failure."

::= { mioxPleEntry 10 }

mioxPleQbitFailureTime OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The most recent value of sysUpTime when a connection was closed because of a Q-bit failure. This will also be the last time that mioxPleQbitFailures was incremented."

::= { mioxPleEntry 11 }

mioxPleMinimumOpenTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The minimum time in milliseconds this interface will keep a connection open before allowing it to be closed. A value of zero indicates no timer."

DEFVAL { 0 }

::= { mioxPleEntry 12 }

mioxPleInactivityTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The amount of time in milliseconds this interface will keep an idle connection open before closing it. A value of 2147483647 indicates no timer."

DEFVAL { 10000 }

::= { mioxPleEntry 13 }

mioxPleHoldDownTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The hold down timer in milliseconds. This is the minimum amount of time to wait before trying another call to a host that was previously unsuccessful. A value of 2147483647 indicates the host will not be retried."

DEFVAL { 0 }

::= { mioxPleEntry 14 }

mioxPleCollisionRetryTimer OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The Collision Retry Timer in milliseconds. The time to delay between call attempts when the maximum number of circuits is exceeded in a call attempt."

DEFVAL { 0 }

::= { mioxPleEntry 15 }

mioxPleDefaultPeerId OBJECT-TYPE

SYNTAX InstancePointer

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This identifies the instance of the index in the mioxPeerTable for the default parameters to use with this interface.

The entry identified by this object may have a zero length Encapsulation address and a zero length X.121 address.

These default parameters are used with connections to hosts that do not have entries in the mioxPeerTable. Such connections occur when using ddn-x25 IP-X.25 address mapping or when accepting connections from other hosts not in the mioxPeerTable.

The mioxPeerEncTable entry with the same

index as the mioxPeerTable entry specifies the call encapsulation types this PLE will accept for peers not in the mioxPeerTable. If the mioxPeerEncTable doesn't contain any entries, this PLE will not accept calls from entries not in the mioxPeerTable."

::= { mioxPleEntry 16 }

-- #####  
-- Peer Table  
-- #####

-- Systems that implement RFC 1356 must also implement  
-- all objects in this group.

mioxPeerTable OBJECT-TYPE

SYNTAX SEQUENCE OF MioxPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION



"This table contains information about the possible peers this machine may exchange packets with."

::= { mioxPeer 1 }

mioxPeerEntry OBJECT-TYPE

SYNTAX MioxPeerEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Per peer information."

INDEX { mioxPeerIndex }

::= { mioxPeerTable 1 }

MioxPeerEntry ::= SEQUENCE {

mioxPeerIndex

PositiveInteger,

mioxPeerStatus

INTEGER,

mioxPeerMaxCircuits

PositiveInteger,

mioxPeerIfIndex

PositiveInteger,

mioxPeerConnectSeconds

Counter,

mioxPeerX25CallParamId

InstancePointer,

mioxPeerEnAddr

OCTET STRING,

mioxPeerX121Address

X121Address,

mioxPeerX25CircuitId

InstancePointer,

mioxPeerDescr

DisplayString

}

mioxPeerIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-only

STATUS mandatory

DESCRIPTION

"An index value that distinguished one entry from another.

This index is independent of

any other index."

::= { mioPeerEntry 1 }

- Systems can claim conformance with this MIB without
- implementing sets to mioPeerStatus with a value of
- clearCall or makeCall.
- All other defined values must be accepted.
- Implementors should realize that allowing these values
- provides richer management, and implementations
- are encouraged to accept these values.

mioPeerStatus OBJECT-TYPE

SYNTAX INTEGER {

- valid (1),
  - createRequest (2),
  - underCreation (3),
  - invalid (4),
  - clearCall (5),
  - makeCall (6)
- }

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This reports the status of a peer entry.

A value of valid indicates a normal entry that is in use by the agent. A value of

underCreation indicates a newly created entry which isn't yet in use because the creating management station is still setting values.

The value of invalid indicates the entry is no longer in use and the agent is free to delete the entry at any time. A management station is also free to use an entry in the invalid state.

Entries are created by setting a value of createRequest. Only non-existent or invalid entries can be set to createRequest. Upon receiving a valid createRequest, the agent will create an entry in the underCreation state. This object can not be set to a value of underCreation directly, entries can only be created by setting a value of createRequest. Entries that exist in other

than the invalid state can not be set to createRequest.

Entries with a value of underCreation are not used by the system and the management station can change the values of other objects in the table entry. Management stations should also remember to configure values in the mioPeerEncTable with the same peer index value as this peer entry.

An entry in the underCreation state can be set to valid or invalid. Entries in the underCreation state will stay in that state until 1) the agent times them out, 2) they are set to valid, 3) they are set to invalid. If an agent notices an entry has been in the underCreation state for an abnormally long time, it may decide the management station has failed and invalidate

the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

Entries in the valid state may also be set to makeCall or clearCall to make or clear X.25 calls to the peer. After such a set request the entry will still be in the valid state. Setting a value of makeCall causes the agent to initiate an X.25 call request to the peer specified by the entry. Setting a value of clearCall causes the agent to initiate clearing one X.25 call present

to

the peer. Each set request will initiate another call or clear request (up to the maximum allowed); this means that management stations that fail to get a response to a set request should query to see if a call was in fact placed or cleared before retrying the request. Entries not in the valid state can not be set to makeCall or

clearCall.

The values of makeCall and clearCall provide for circuit control on devices which perform Ethernet Bridging using static circuit assignment without address recognition; other devices which dynamically place calls based on destination addresses may reject such requests.

An agent that (re)creates a new entry because of a set with createRequest, should

also (re)create a mioPeerEncTable entry with a mioPeerEncIndex of 1, and a mioPeerEncType of 204 (hex CC)."  
::= { mioPeerEntry 2 }

#### mioxPeerMaxCircuits OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The maximum number of X.25 circuits allowed to this peer."

DEFVAL { 1 }

::= { mioPeerEntry 3 }

#### mioxPeerIfIndex OBJECT-TYPE

SYNTAX PositiveInteger

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The value of the ifIndex object for the interface to X.25 to use to call the peer."

DEFVAL { 1 }

::= { mioPeerEntry 4 }

#### mioxPeerConnectSeconds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of seconds a call to this peer was active. This counter

will be

incremented by one for every second a connection to a peer was open. If two calls

are open at the same time, one second of elapsed real time will result in two seconds of connect time."

::= { mioxPeerEntry 5 }

#### mioxPeerX25CallParamId OBJECT-TYPE

SYNTAX InstancePointer

ACCESS read-write

STATUS mandatory

##### DESCRIPTION

"The instance of the index object in the x25CallParmTable from RFC 1382 for the X.25 call parameters used to communicate with the remote host. The well known value {0 0} indicates no call parameters specified."

DEFVAL { {0 0} }

::= { mioxPeerEntry 6 }

#### mioxPeerEnAddr OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..128))

ACCESS read-write

STATUS mandatory

##### DESCRIPTION

"The Encapsulation address of the remote host mapped by this table entry. A length of zero indicates the remote IP address is unknown or unspecified for use as a PLE default.

The first octet of this object contains the encapsulation type, the remaining octets contain an address of that type. Thus for an IP address, the length will be five octets, the first octet will contain 204 (hex CC), and the last four octets will contain the IP address. For a snap encapsulation, the first byte would be 128 (hex 80) and the rest of the octet string would have the snap header."

DEFVAL { "h" }

::= { mioxPeerEntry 7 }

#### mioxPeerX121Address OBJECT-TYPE

SYNTAX X121Address

ACCESS read-write

STATUS mandatory

##### DESCRIPTION

"The X.25 address of the remote

host mapped  
by this table entry. A zero length string  
indicates the X.25 address is unspecified  
for use as the PLE default."  
DEFVAL { "h }  
::= { mioxPeerEntry 8 }

-- Systems can claim conformance to this MIB without  
-- implementing sets to mioxPeerX25CircuitId.  
-- However systems that use PVCs with RFC1356  
-- are encouraged to implement sets.

mioxPeerX25CircuitId OBJECT-TYPE

SYNTAX InstancePointer

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This object identifies the instance of the  
index for the X.25 circuit open to the peer  
mapped by this table entry. The well known  
value {0 0} indicates no connection  
currently active. For multiple connections,  
this identifies the index of a multiplexing  
table entry for the connections. This can  
only be written to configure

use of PVCs

which means the identified circuit table  
entry for a write must be a PVC."

DEFVAL { {0 0} }

::= { mioxPeerEntry 9 }

mioxPeerDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This object returns any identification  
information about the peer. An agent may  
supply the comment information found in the  
configuration file entry for this peer. A  
zero length string indicates no information  
available."

DEFVAL { "h }

::= { mioxPeerEntry 10 }

-- #####

-- Peer Encapsulation Table

-- #####

mioxPeerEncTable OBJECT-TYPE

SYNTAX SEQUENCE OF MioxPeerEncEntry

ACCESS not-accessible

STATUS

mandatory

DESCRIPTION

"This table contains the list of encapsulations used to communicate with a peer. This table has two indexes, the first identifies the peer, the second distinguishes encapsulation types.

The first index identifies the corresponding entry in the mioxPeerTable. The second index gives the priority of the different encapsulations.

The encapsulation types are ordered in priority order. For calling a peer, the first entry (mioxPeerEncIndex of 1) is tried first. If the call doesn't succeed because the remote host clears the call due to incompatible call user data, the next entry in the list is tried. Each entry is tried until the list is exhausted.

For answering a call, the encapsulation type requested by the peer must be found the list or the call will be refused. If there are no entries in this table for a peer, all call requests from the peer will be refused.

Objects in this table can only be set when the mioxPeerStatus object with the same index has a value of underCreation. When that status object is set to invalid and deleted, the entry in this table with that peer index must also be deleted."

::= { mioxPeer 2 }

mioxPeerEncEntry OBJECT-TYPE

SYNTAX MioxPeerEncEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"Per connection information."  
INDEX { mioxPeerIndex, mioxPeerEncIndex }  
::= { mioxPeerEncTable 1 }

MioxPeerEncEntry ::= SEQUENCE {  
    mioxPeerEncIndex  
        PositiveInteger,  
    mioxPeerEncType  
        INTEGER  
}

mioxPeerEncIndex OBJECT-TYPE  
SYNTAX PositiveInteger  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION  
    "The second index in the table which  
    distinguishes different encapsulation  
    types."  
::= { mioxPeerEncEntry 1 }

mioxPeerEncType OBJECT-TYPE  
SYNTAX INTEGER (0..256)  
ACCESS read-write  
STATUS mandatory  
DESCRIPTION  
    "The value of the encapsulation type. For  
    IP encapsulation this will have a value of  
    204 (hex CC). For SNAP encapsulated  
    packets, this will have a value of 128 (hex  
    80). For CLNP, ISO 8473, this will have a  
    value of 129 (hex 81). For ES-ES, ISO 9542,  
    this will have a value of 130 (hex 82). A  
    value of 197 (hex C5) identifies the Blacker  
    X.25 encapsulation. A value  
of 0,  
    identifies the Null encapsulation.

This value can only be written when the  
mioxPeerStatus object with the same  
mioxPeerIndex has a value of underCreation.  
Setting this object to a value of 256  
deletes the entry. When deleting an entry,  
all other entries in the mioxPeerEncTable  
with the same mioxPeerIndex and with an  
mioxPeerEncIndex higher than the deleted  
entry, will all have their mioxPeerEncIndex  
values decremented by one."



::= { mioxPeerEncEntry 2 }

-- #####

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB

No license file was found, but licenses were detected in source scan.

IANAifType-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, mib-2 FROM SNMPv2-SMI

TEXTUAL-CONVENTION FROM SNMPv2-TC;

ianaifType MODULE-IDENTITY

LAST-UPDATED "200709130000Z" -- September 13, 2007

ORGANIZATION "IANA"

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DESCRIPTION "This MIB module defines the IANAifType Textual Convention, and thus the enumerated values of the ifType object defined in MIB-II's ifTable."

REVISION "200709130000Z" -- September 13, 2007

DESCRIPTION "Registration of new IANAifTypes 243 and 244."

REVISION "200705290000Z"

-- May 29, 2007

DESCRIPTION "Changed the description for IANAifType 228."

REVISION "200703080000Z" -- March 08, 2007

DESCRIPTION "Registration of new IANAifType 242."

REVISION "200701230000Z" -- January 23, 2007

DESCRIPTION "Registration of new IANAifTypes 239, 240, and 241."

REVISION "200610170000Z" -- October 17, 2006

DESCRIPTION "Deprecated/Obsoleted IANAifType 230. Registration of

IANAifType 238."

REVISION "200609250000Z" -- September 25, 2006  
DESCRIPTION "Changed the description for IANA ifType  
184 and added new IANA ifType 237."

REVISION "200608170000Z" -- August 17, 2006  
DESCRIPTION "Changed the descriptions for IANAifTypes  
20 and 21."

REVISION "200608110000Z" -- August 11, 2006  
DESCRIPTION "Changed the descriptions for IANAifTypes  
7, 11, 62,  
69, and 117."

REVISION "200607250000Z" -- July 25, 2006  
DESCRIPTION "Registration of new IANA ifType 236."

REVISION "200606140000Z" -- June 14, 2006  
DESCRIPTION "Registration of new IANA ifType 235."

REVISION "200603310000Z" -- March 31, 2006  
DESCRIPTION "Registration of new IANA ifType 234."

REVISION "200603300000Z" -- March 30, 2006  
DESCRIPTION "Registration of new IANA ifType 233."

REVISION "200512220000Z" -- December 22, 2005  
DESCRIPTION "Registration of new IANA ifTypes 231 and 232."

REVISION "200510100000Z" -- October 10, 2005  
DESCRIPTION "Registration of new IANA ifType 230."

REVISION "200509090000Z" -- September 09, 2005  
DESCRIPTION "Registration of new IANA ifType 229."

REVISION "200505270000Z" -- May 27, 2005  
DESCRIPTION "Registration of new IANA ifType 228."

REVISION "200503030000Z"  
-- March 3, 2005  
DESCRIPTION "Added the IANAtunnelType TC and deprecated  
IANAifType sixToFour (215) per RFC4087."

REVISION "200411220000Z" -- November 22, 2004  
DESCRIPTION "Registration of new IANA ifType 227 per RFC4631."

REVISION "200406170000Z" -- June 17, 2004

DESCRIPTION "Registration of new IANA ifType 226."

REVISION "200405120000Z" -- May 12, 2004

DESCRIPTION "Added description for IANAifType 6, and  
changed the descriptions for IANAifTypes  
180, 181, and 182."

REVISION "200405070000Z" -- May 7, 2004

DESCRIPTION "Registration of new IANAifType 225."

REVISION "200308250000Z" -- Aug 25, 2003

DESCRIPTION "Deprecated IANAifTypes 7 and 11. Obsoleted  
IANAifTypes 62, 69, and 117. ethernetCsmacd (6)  
should be used instead of these values"

REVISION "200308180000Z"

-- Aug 18, 2003

DESCRIPTION "Registration of new IANAifType  
224."

REVISION "200308070000Z" -- Aug 7, 2003

DESCRIPTION "Registration of new IANAifTypes  
222 and 223."

REVISION "200303180000Z" -- Mar 18, 2003

DESCRIPTION "Registration of new IANAifType  
221."

REVISION "200301130000Z" -- Jan 13, 2003

DESCRIPTION "Registration of new IANAifType  
220."

REVISION "200210170000Z" -- Oct 17, 2002

DESCRIPTION "Registration of new IANAifType  
219."

REVISION "200207160000Z" -- Jul 16, 2002

DESCRIPTION "Registration of new IANAifTypes  
217 and 218."

REVISION "200207100000Z" -- Jul 10, 2002

DESCRIPTION "Registration of new IANAifTypes  
215 and 216."

REVISION "200206190000Z" -- Jun 19, 2002

DESCRIPTION "Registration  
of new IANAifType  
214."

REVISION "200201040000Z" -- Jan 4, 2002  
DESCRIPTION "Registration of new IANAifTypes  
211, 212 and 213."

REVISION "200112200000Z" -- Dec 20, 2001  
DESCRIPTION "Registration of new IANAifTypes  
209 and 210."

REVISION "200111150000Z" -- Nov 15, 2001  
DESCRIPTION "Registration of new IANAifTypes  
207 and 208."

REVISION "200111060000Z" -- Nov 6, 2001  
DESCRIPTION "Registration of new IANAifType  
206."

REVISION "200111020000Z" -- Nov 2, 2001  
DESCRIPTION "Registration of new IANAifType  
205."

REVISION "200110160000Z" -- Oct 16, 2001  
DESCRIPTION "Registration of new IANAifTypes  
199, 200, 201, 202, 203, and 204."

REVISION "200109190000Z" -- Sept 19, 2001  
DESCRIPTION "Registration  
of new IANAifType  
198."

REVISION "200105110000Z" -- May 11, 2001  
DESCRIPTION "Registration of new IANAifType  
197."

REVISION "200101120000Z" -- Jan 12, 2001  
DESCRIPTION "Registration of new IANAifTypes  
195 and 196."

REVISION "200012190000Z" -- Dec 19, 2000  
DESCRIPTION "Registration of new IANAifTypes  
193 and 194."

REVISION "200012070000Z" -- Dec 07, 2000

DESCRIPTION "Registration of new IANAifTypes  
191 and 192."

REVISION "200012040000Z" -- Dec 04, 2000  
DESCRIPTION "Registration of new IANAifType  
190."

REVISION "200010170000Z" -- Oct 17, 2000  
DESCRIPTION "Registration of new IANAifTypes  
188 and 189."

REVISION "200010020000Z" -- Oct 02, 2000  
DESCRIPTION "Registration of new IANAifType  
187."

REVISION "200009010000Z" -- Sept 01, 2000  
DESCRIPTION "Registration of new IANAifTypes  
184, 185, and 186."

REVISION "200008240000Z" -- Aug 24, 2000  
DESCRIPTION "Registration of new IANAifType 183."

REVISION "200008230000Z" -- Aug 23, 2000  
DESCRIPTION "Registration of new IANAifTypes  
174-182."

REVISION "200008220000Z" -- Aug 22, 2000  
DESCRIPTION "Registration of new IANAifTypes 170,  
171, 172 and 173."

REVISION "200004250000Z" -- Apr 25, 2000  
DESCRIPTION "Registration of new IANAifTypes 168 and 169."

REVISION "200003060000Z" -- Mar 6, 2000  
DESCRIPTION "Fixed a missing semi-colon in the IMPORT.  
Also cleaned up the REVISION log a bit.  
It is not complete, but from now on it will  
be maintained and kept up to date with  
each  
change to this MIB module."

REVISION "199910081430Z" -- Oct 08, 1999  
DESCRIPTION "Include new name assignments up to cnr(85).  
This is the first version available via the WWW  
at: ftp://ftp.isi.edu/mib/ianaiftype.mib"

REVISION "199401310000Z" -- Jan 31, 1994  
DESCRIPTION "Initial version of this MIB as published in

RFC 1573."

::= { mib-2 30 }

IANAifType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used as the syntax of the ifType object in the (updated) definition of MIB-II's ifTable.

The definition of this textual convention with the addition of newly assigned values is published periodically by the IANA, in either the Assigned Numbers RFC, or some derivative of it specific to Internet

Network Management number assignments. (The latest arrangements can be obtained by contacting the IANA.)

Requests for new values should be made to IANA via email ([iana@iana.org](mailto:iana@iana.org)).

The relationship between the assignment of ifType values and of OIDs to particular media-specific MIBs is solely the purview of IANA and is subject to change without notice. Quite often, a media-specific MIB's OID-subtree assignment within MIB-II's 'transmission' subtree will be the same as its ifType value.

However, in some circumstances this will not be the case, and implementors must not pre-assume any specific relationship between ifType values and transmission subtree OIDs."

SYNTAX INTEGER {

other(1), -- none of the following  
regular1822(2),  
hdh1822(3),  
ddnX25(4),  
rfc877x25(5),  
ethernetCsmacd(6), -- for all ethernet-like interfaces,  
-- regardless of speed, as per RFC3635  
iso88023Csmacd(7), -- Deprecated via RFC3635  
-- ethernetCsmacd (6) should be used instead  
iso88024TokenBus(8),  
iso88025TokenRing(9),  
iso88026Man(10),  
starLan(11), -- Deprecated via RFC3635

```

        -- ethernetCsmacd (6) should be used instead
    proteon10Mbit(12),
    proteon80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    ds1(18),      -- DS1-MIB
    e1(19),      -- Obsolete see DS1-MIB
    basicISDN(20),
-- no longer used
        -- see also RFC2127
    primaryISDN(21),      -- no longer used
        -- see also RFC2127
    propPointToPointSerial(22), -- proprietary serial
    ppp(23),
    softwareLoopback(24),
    eon(25),      -- CLNP over IP
    ethernet3Mbit(26),
    nsip(27),    -- XNS over IP
    slip(28),    -- generic SLIP
    ultra(29),   -- ULTRA technologies
    ds3(30),    -- DS3-MIB
    sip(31),    -- SMDS, coffee
    frameRelay(32), -- DTE only.
    rs232(33),
    para(34),   -- parallel-port
    arcnet(35), -- arcnet
    arcnetPlus(36), -- arcnet plus
    atm(37),
-- ATM cells
    miox25(38),
    sonet(39), -- SONET or SDH
    x25ple(40),
    iso88022llc(41),
    localTalk(42),
    smdsDxi(43),
    frameRelayService(44), -- FRNETSERV-MIB
    v35(45),
    hssi(46),
    hippi(47),
    modem(48), -- Generic modem
    aal5(49), -- AAL5 over ATM
    sonetPath(50),
    sonetVT(51),
    smdsIcip(52), -- SMDS InterCarrier Interface
    propVirtual(53), -- proprietary virtual/internal
    propMultiplexor(54),-- proprietary multiplexing

```

ieee80212(55), -- 100BaseVG  
fibreChannel(56), -- Fibre Channel  
hippiInterface(57), -- HIPPI interfaces  
frameRelayInterconnect(58), --

Obsolete use either

-- frameRelay(32) or  
-- frameRelayService(44).  
aflane8023(59), -- ATM Emulated LAN for 802.3  
aflane8025(60), -- ATM Emulated LAN for 802.5  
cctEmul(61), -- ATM Emulated circuit  
fastEther(62), -- Obsoleted via RFC3635  
-- ethernetCsmacd (6) should be used instead  
isdn(63), -- ISDN and X.25  
v11(64), -- CCITT V.11/X.21  
v36(65), -- CCITT V.36  
g703at64k(66), -- CCITT G703 at 64Kbps  
g703at2mb(67), -- Obsolete see DS1-MIB  
qllc(68), -- SNA QLLC  
fastEtherFX(69), -- Obsoleted via RFC3635  
  
-- ethernetCsmacd (6) should be used instead  
channel(70), -- channel  
ieee80211(71), -- radio spread spectrum  
ibm370parChan(72), -- IBM System 360/370 OEMI Channel  
escon(73), -- IBM Enterprise Systems Connection  
dls(74), -- Data Link Switching  
isdns(75), -- ISDN S/T interface  
isdnu(76), -- ISDN U interface  
lapd(77), -- Link Access Protocol D  
ipSwitch(78), -- IP Switching Objects  
rsrb(79), -- Remote Source Route Bridging  
atmLogical(80), -- ATM Logical Port  
ds0(81), -- Digital Signal Level 0  
ds0Bundle(82), -- group of ds0s on the same ds1  
bsc(83), -- Bisynchronous Protocol  
  
async(84), -- Asynchronous Protocol  
cnr(85), -- Combat Net Radio  
iso88025Dtr(86), -- ISO 802.5r DTR  
eplrs(87), -- Ext Pos Loc Report Sys  
arap(88), -- Appletalk Remote Access Protocol  
propCnls(89), -- Proprietary Connectionless Protocol  
hostPad(90), -- CCITT-ITU X.29 PAD Protocol  
termPad(91), -- CCITT-ITU X.3 PAD Facility  
frameRelayMPI(92), -- Multiproto Interconnect over FR  
x213(93), -- CCITT-ITU X213  
adsl(94), -- Asymmetric Digital Subscriber Loop  
radsl(95), -- Rate-Adapt. Digital Subscriber Loop



sdsl(96), -- Symmetric Digital Subscriber Loop  
 vdsl(97), -- Very H-Speed Digital Subscrib. Loop  
 iso88025CRFPInt(98),  
 -- ISO 802.5 CRFP  
 myrinet(99), -- Myricom Myrinet  
 voiceEM(100), -- voice recEive and transMit  
 voiceFXO(101), -- voice Foreign Exchange Office  
 voiceFXS(102), -- voice Foreign Exchange Station  
 voiceEncap(103), -- voice encapsulation  
 voiceOverIp(104), -- voice over IP encapsulation  
 atmDxi(105), -- ATM DXI  
 atmFuni(106), -- ATM FUNI  
 atmIma (107), -- ATM IMA  
 pppMultilinkBundle(108), -- PPP Multilink Bundle  
 ipOverCdlc (109), -- IBM ipOverCdlc  
 ipOverClaw (110), -- IBM Common Link Access to Workstn  
 stackToStack (111), -- IBM stackToStack  
 virtualIpAddress (112), -- IBM VIPA  
 mpc (113), -- IBM multi-protocol channel support  
  
 ipOverAtm (114), -- IBM ipOverAtm  
 iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring  
 tdlc (116), -- IBM twinaxial data link control  
 gigabitEthernet (117), -- Obsoleted via RFC3635  
 -- ethernetCsmacd (6) should be used instead  
 hdlc (118), -- HDLC  
 lapf (119), -- LAP F  
 v37 (120), -- V.37  
 x25mlp (121), -- Multi-Link Protocol  
 x25huntGroup (122), -- X25 Hunt Group  
 trasnpHdlc (123), -- Transp HDLC  
 interleave (124), -- Interleave channel  
 fast (125), -- Fast channel  
 ip (126), -- IP (for APPN HPR in IP networks)  
 docsCableMaclayer (127), -- CATV Mac Layer  
 docsCableDownstream (128), -- CATV Downstream interface  
 docsCableUpstream  
 (129), -- CATV Upstream interface  
 a12MppSwitch (130), -- Avalon Parallel Processor  
 tunnel (131), -- Encapsulation interface  
 coffee (132), -- coffee pot  
 ces (133), -- Circuit Emulation Service  
 atmSubInterface (134), -- ATM Sub Interface  
 l2vlan (135), -- Layer 2 Virtual LAN using 802.1Q  
 l3ipvlan (136), -- Layer 3 Virtual LAN using IP  
 l3ipxvlan (137), -- Layer 3 Virtual LAN using IPX  
 digitalPowerline (138), -- IP over Power Lines  
 mediaMailOverIp (139), -- Multimedia Mail over IP

dtm (140), -- Dynamic synchronous Transfer Mode  
 den (141), -- Data Communications Network  
 ipForward (142), -- IP Forwarding Interface  
 msdsl (143), -- Multi-rate Symmetric DSL  
  
 ieee1394 (144), -- IEEE1394 High Performance Serial Bus  
 if-gsn (145), -- HIPPI-6400  
 dvbRccMacLayer (146), -- DVB-RCC MAC Layer  
 dvbRccDownstream (147), -- DVB-RCC Downstream Channel  
 dvbRccUpstream (148), -- DVB-RCC Upstream Channel  
 atmVirtual (149), -- ATM Virtual Interface  
 mplsTunnel (150), -- MPLS Tunnel Virtual Interface  
 srp (151), -- Spatial Reuse Protocol  
 voiceOverAtm (152), -- Voice Over ATM  
 voiceOverFrameRelay (153), -- Voice Over Frame Relay  
 idsl (154), -- Digital Subscriber Loop over ISDN  
 compositeLink (155), -- Avici Composite Link Interface  
 ss7SigLink (156), -- SS7 Signaling Link  
 propWirelessP2P (157), -- Prop. P2P wireless interface  
 frForward (158), -- Frame Forward Interface  
 rfc1483 (159), -- Multiprotocol over ATM AAL5  
 usb (160), -- USB Interface  
 ieee8023adLag (161), -- IEEE 802.3ad Link Aggregate  
 bgppolicyaccounting (162), -- BGP Policy Accounting  
 frf16MfrBundle (163), -- FRF .16 Multilink Frame Relay  
 h323Gatekeeper (164), -- H323 Gatekeeper  
 h323Proxy (165), -- H323 Voice and Video Proxy  
 mpls (166), -- MPLS  
 mfSigLink (167), -- Multi-frequency signaling link  
 hdsl2 (168), -- High Bit-Rate DSL - 2nd generation  
 shdsl (169), -- Multirate HDSL2  
 ds1FDL (170), -- Facility Data Link 4Kbps on a DS1  
 pos (171), -- Packet over SONET/SDH Interface  
 dvbAsiIn (172), -- DVB-ASI Input  
 dvbAsiOut (173), -- DVB-ASI Output  
 plc (174), -- Power Line Communications  
 nfas (175), -- Non Facility Associated Signaling  
 tr008 (176), -- TR008  
 gr303RDT (177), -- Remote Digital Terminal  
 gr303IDT (178), -- Integrated Digital Terminal  
 isup (179), -- ISUP  
 propDocsWirelessMaclayer (180), -- Cisco proprietary Maclayer  
 propDocsWirelessDownstream (181), -- Cisco proprietary Downstream  
 propDocsWirelessUpstream (182), -- Cisco proprietary Upstream  
 hiperlan2 (183), -- HIPERLAN Type 2 Radio Interface  
 propBWApt2Mp (184), -- PropBroadbandWirelessAccesspt2multipt  
 -- use of this iftype for IEEE 802.16 WMAN  
 -- interfaces as per IEEE Std 802.16f is

-- deprecated and ifType 237 should be used instead.

sonetOverheadChannel (185), -- SONET Overhead Channel

digitalWrapperOverheadChannel  
(186), -- Digital Wrapper

aal2 (187), -- ATM adaptation layer 2

radioMAC (188), -- MAC layer over radio links

atmRadio (189), -- ATM over radio links

imt (190), -- Inter Machine Trunks

mvl (191), -- Multiple Virtual Lines DSL

reachDSL (192), -- Long Reach DSL

frDlciEndPt (193), -- Frame Relay DLCI End Point

atmVciEndPt (194), -- ATM VCI End Point

opticalChannel (195), -- Optical Channel

opticalTransport (196), -- Optical Transport

propAtm (197), -- Proprietary ATM

voiceOverCable (198), -- Voice Over Cable Interface

infiniband (199), -- Infiniband

teLink (200), -- TE Link

q2931 (201), -- Q.2931

virtualTg (202), -- Virtual Trunk Group

sipTg (203), -- SIP Trunk Group

sipSig (204), -- SIP Signaling

docsCableUpstreamChannel (205), -- CATV Upstream Channel

econet (206), -- Acorn Econet

pon155 (207), -- FSAN 155Mb Symmetrical PON interface

pon622 (208), -- FSAN622Mb Symmetrical PON interface

bridge (209), -- Transparent bridge interface

linegroup (210), -- Interface common to multiple lines

voiceEMFGD (211), -- voice E&M Feature Group D

voiceFGDEANA (212), -- voice FGD Exchange Access North American

voiceDID (213), -- voice Direct Inward Dialing

mpegTransport (214), -- MPEG transport interface

sixToFour (215), -- 6to4 interface (DEPRECATED)

gtp (216), -- GTP (GPRS Tunneling Protocol)

pdnEtherLoop1 (217), -- Paradyne EtherLoop 1

pdnEtherLoop2  
(218), -- Paradyne EtherLoop 2

opticalChannelGroup (219), -- Optical Channel Group

homepna (220), -- HomePNA ITU-T G.989

gfp (221), -- Generic Framing Procedure (GFP)

ciscoISLvlan (222), -- Layer 2 Virtual LAN using Cisco ISL

actelisMetaLOOP (223), -- Acteleis proprietary MetaLOOP High Speed Link

fcipLink (224), -- FCIP Link

rpr (225), -- Resilient Packet Ring Interface Type

qam (226), -- RF Qam Interface

lmp (227), -- Link Management Protocol

cbIVectaStar (228), -- Cambridge Broadband Networks Limited VectaStar

docsCableMCmtsDownstream (229), -- CATV Modular CMTS Downstream Interface  
adsl2 (230), -- Asymmetric Digital Subscriber Loop Version 2  
-- (DEPRECATED/OBSOLETE - please use adsl2plus 238 instead)

macSecControlledIF (231), -- MACSecControlled  
macSecUncontrolledIF (232), -- MACSecUncontrolled  
aviciOpticalEther (233), -- Avici Optical Ethernet Aggregate  
atmbond (234), -- atmbond  
voiceFGDOS (235), -- voice FGD Operator Services  
mocaVersion1 (236), -- MultiMedia over Coax Alliance (MoCA) Interface  
-- as documented in information provided privately to IANA  
ieee80216WMAN (237), -- IEEE 802.16 WMAN interface  
adsl2plus (238), -- Asymmetric Digital Subscriber Loop Version 2,  
-- Version 2 Plus and all variants  
dvbRcsMacLayer (239), -- DVB-RCS MAC Layer  
dvbTdm (240), -- DVB Satellite TDM  
dvbRcsTdma (241), -- DVB-RCS TDMA  
x86Laps (242), -- LAPS based on ITU-T X.86/Y.1323  
wwanPP (243), -- 3GPP

#### WWAN

wwanPP2 (244) -- 3GPP2 WWAN  
}

#### IANA tunnelType ::= TEXTUAL-CONVENTION

STATUS current

#### DESCRIPTION

"The encapsulation method used by a tunnel. The value direct indicates that a packet is encapsulated directly within a normal IP header, with no intermediate header, and unicast to the remote tunnel endpoint (e.g., an RFC 2003 IP-in-IP tunnel, or an RFC 1933 IPv6-in-IPv4 tunnel). The value minimal indicates that a Minimal Forwarding Header (RFC 2004) is inserted between the outer header and the payload packet. The value UDP indicates that the payload packet is encapsulated within a normal UDP packet (e.g., RFC 1234).

The values sixToFour, sixOverFour, and isatap indicates that an IPv6 packet is encapsulated directly within an IPv4 header, with no intermediate header,

and unicast to the destination determined by the 6to4, 6over4, or ISATAP protocol.

The remaining protocol-specific values indicate that a header of the protocol of that name is inserted between the outer header and the payload header.

The assignment policy for IANA tunnelType values is identical to the policy for assigning IANA ifType values."

```
SYNTAX INTEGER {
    other(1),      -- none of the following
    direct(2),    -- no intermediate header
    gre(3),       -- GRE encapsulation
    minimal(4),   -- Minimal encapsulation
    l2tp(5),      -- L2TP encapsulation
    pptp(6),     -- PPTP encapsulation
    l2f(7),      -- L2F encapsulation
    udp(8),      -- UDP encapsulation
    atmp(9),     -- ATMP encapsulation

    msdp(10),    -- MSDP encapsulation
    sixToFour(11), -- 6to4 encapsulation
    sixOverFour(12), -- 6over4 encapsulation
    isatap(13),  -- ISATAP encapsulation
    teredo(14)   -- Teredo encapsulation
}
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-
jar/mibs/iana/IANAifType-MIB
```

No license file was found, but licenses were detected in source scan.

RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
    mgmt, OBJECT-TYPE, NetworkAddress, IpAddress,
    Counter, Gauge, TimeTicks
    FROM RFC1155-SMI;
```

DisplayString ::=

```
OCTET STRING
```

```
mib-2 OBJECT IDENTIFIER ::= { mgmt 1 } -- MIB-II
-- (same prefix as MIB-I)
```

```
system OBJECT IDENTIFIER ::= { mib-2 1 }
```

```
interfaces OBJECT IDENTIFIER ::= { mib-2 2 }
```

```
at OBJECT IDENTIFIER ::= { mib-2 3 }
```

```
ip OBJECT IDENTIFIER ::= { mib-2 4 }
```

```
icmp OBJECT IDENTIFIER ::= { mib-2 5 }
```

```
tcp OBJECT IDENTIFIER ::= { mib-2 6 }
```

```
udp    OBJECT IDENTIFIER ::= { mib-2 7 }
egp    OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp   OBJECT IDENTIFIER ::= { mib-2 11 }
```

```
-- object types
```

```
-- the System group
```

```
sysDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { system 1 }
```

```
sysObjectID OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    ACCESS read-only
    STATUS mandatory
    ::= { system 2 }
```

```
sysUpTime OBJECT-TYPE
    SYNTAX TimeTicks
    ACCESS read-only
    STATUS mandatory
    ::= { system 3 }
```

```
sysContact OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-write
    STATUS mandatory
    ::= { system 4 }
```

```
sysName OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-write
    STATUS mandatory
    ::= { system 5 }
```

```
sysLocation OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { system 6 }
```

```
sysServices OBJECT-TYPE
```

```

SYNTAX INTEGER (0..127)
ACCESS read-only
STATUS mandatory
::= { system 7 }

-- the Interfaces group

ifNumber OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS
mandatory
    ::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE
    SYNTAX SEQUENCE OF IfEntry
    ACCESS read-only
    STATUS mandatory
    ::= { interfaces 2 }

ifEntry OBJECT-TYPE
    SYNTAX IfEntry
    ACCESS read-only
    STATUS mandatory
    ::= { ifTable 1 }

IfEntry ::= SEQUENCE {
    ifIndex
        INTEGER,
    ifDescr
        DisplayString,
    ifType
        INTEGER,
    ifMtu
        INTEGER,
    ifSpeed
        Gauge,
    ifPhysAddress
        OCTET STRING,
    ifAdminStatus
        INTEGER,
    ifOperStatus
        INTEGER,
    ifLastChange
        TimeTicks,

```

```
ifInOctets
    Counter,
ifInUcastPkts
    Counter,
ifInNUcastPkts
    Counter,
ifInDiscards
    Counter,
ifInErrors
    Counter,
ifInUnknownProtos
    Counter,
ifOutOctets
    Counter,
ifOutUcastPkts
    Counter,
ifOutNUcastPkts
    Counter,
ifOutDiscards
    Counter,
ifOutErrors
    Counter,
ifOutQLen
    Gauge,
ifSpecific
    OBJECT IDENTIFIER
}
```

```
ifIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 1 }
```

```
ifDescr OBJECT-TYPE
    SYNTAX DisplayString (SIZE (0..255))
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 2 }
```

```
ifType OBJECT-TYPE
    SYNTAX INTEGER {
        other(1),          -- none of the
                           -- following
        regular1822(2),
        hdh1822(3),
        ddn-x25(4),
        rfc877-x25(5),
```



```

    ethernet-csmacd(6),
    iso88023-csmacd(7),
    iso88024-tokenBus(8),
    iso88025-tokenRing(9),
    iso88026-man(10),
    starLan(11),
    proteon-10Mbit(12),
    proteon-80Mbit(13),
    hyperchannel(14),
    fddi(15),
    lapb(16),
    sdlc(17),
    t1-carrier(18),
    cept(19),      -- european
                  --equivalent of T-1
    basicISDN(20),
    primaryISDN(21),
                  -- proprietary
                  -- serial
    propPointToPointSerial(22),
    terminalServer-asyncPort(23),
    softwareLoopback(24),
    eon(25),      -- CLNP over IP
    ethernet-3Mbit(26),
    nsip(27),     -- XNS over IP
    slip(28)     -- generic SLIP
}
ACCESS read-only
STATUS mandatory
::= { ifEntry 3 }

```

```

ifMtu OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { ifEntry 4 }

```

```

ifSpeed
    OBJECT-TYPE
        SYNTAX Gauge
        ACCESS read-only
        STATUS mandatory
        ::= { ifEntry 5 }

```

```

ifPhysAddress OBJECT-TYPE
    SYNTAX OCTET STRING
    ACCESS read-only
    STATUS mandatory

```

::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE

SYNTAX INTEGER {  
    up(1), -- ready to pass packets  
    down(2),  
    testing(3) -- in some test mode  
}

ACCESS read-write

STATUS mandatory

::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE

SYNTAX INTEGER {  
    up(1), -- ready to pass packets  
    down(2),  
    testing(3) -- in some test mode  
}

ACCESS read-only

STATUS mandatory

::= { ifEntry 8 }

ifLastChange OBJECT-TYPE

SYNTAX TimeTicks

ACCESS read-only

STATUS mandatory

::= { ifEntry 9 }

ifInOctets OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE

SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 14 }

ifInUnknownProtos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 17 }

ifOutNUcastPkts

OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE

SYNTAX Gauge  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 21 }

ifSpecific OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
ACCESS read-only  
STATUS mandatory  
::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE  
SYNTAX SEQUENCE OF AtEntry  
ACCESS read-write  
STATUS deprecated  
::= { at 1 }

atEntry OBJECT-TYPE  
SYNTAX AtEntry  
ACCESS read-write  
STATUS deprecated  
::= { atTable 1 }

AtEntry ::=

```
SEQUENCE {
  atIfIndex
    INTEGER,
  atPhysAddress
    OCTET STRING,
  atNetAddress
    NetworkAddress
}
```

atIfIndex OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-write  
STATUS deprecated  
::= { atEntry 1 }

atPhysAddress OBJECT-TYPE  
SYNTAX OCTET STRING  
ACCESS read-write  
STATUS deprecated  
::= { atEntry 2 }

atNetAddress OBJECT-TYPE  
SYNTAX NetworkAddress  
ACCESS read-write  
STATUS deprecated  
::= { atEntry 3 }

-- the IP group

ipForwarding OBJECT-TYPE  
SYNTAX INTEGER {  
    gateway(1), -- entity forwards  
        -- datagrams  
    host(2) -- entity does NOT  
        -- forward datagrams  
}  
ACCESS read-write  
STATUS mandatory  
::= { ip 1 }

ipDefaultTTL OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-write  
STATUS mandatory  
::=  
{ ip 2 }

ipInReceives OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 3 }

ipInHdrErrors OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 4 }

ipInAddrErrors OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 5 }

ipForwDatagrams OBJECT-TYPE  
SYNTAX Counter

ACCESS read-only  
STATUS mandatory  
::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 7 }

ipInDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 8 }

ipInDelivers OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 9 }

ipOutRequests OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= {  
ip 10 }

ipOutDiscards OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 12 }

ipReasmTimeout OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { ip 13 }

ipReasmReqds OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 14 }

ipReasmOKs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 15 }

ipReasmFails OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 16 }

ipFragOKs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 17 }

ipFragFails OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 18 }

ipFragCreates

OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE

SYNTAX SEQUENCE OF IpAddrEntry  
ACCESS read-only  
STATUS mandatory  
::= { ip 20 }

ipAddrEntry OBJECT-TYPE

SYNTAX IpAddrEntry  
ACCESS read-only  
STATUS mandatory

::= { ipAddrTable 1 }

```
IpAddrEntry ::= SEQUENCE {  
  ipAdEntAddr  
    IpAddress,  
  ipAdEntIfIndex  
    INTEGER,  
  ipAdEntNetMask  
    IpAddress,  
  ipAdEntBcastAddr  
    INTEGER,  
  ipAdEntReasmMaxSize  
    INTEGER (0..65535)  
}
```

```
ipAdEntAddr OBJECT-TYPE  
  SYNTAX IpAddress  
  ACCESS read-only  
  STATUS mandatory  
  ::= { ipAddrEntry 1 }
```

```
ipAdEntIfIndex OBJECT-TYPE  
  SYNTAX INTEGER  
  ACCESS read-only  
  STATUS mandatory  
  ::= { ipAddrEntry 2 }
```

```
ipAdEntNetMask OBJECT-TYPE  
  SYNTAX IpAddress  
  ACCESS read-only  
  STATUS mandatory  
  ::= { ipAddrEntry 3 }
```

```
ipAdEntBcastAddr OBJECT-TYPE  
  SYNTAX INTEGER  
  ACCESS read-only  
  STATUS mandatory  
  ::= { ipAddrEntry 4 }
```

```
ipAdEntReasmMaxSize OBJECT-TYPE  
  SYNTAX INTEGER (0..65535)  
  ACCESS read-only  
  STATUS mandatory  
  ::= { ipAddrEntry 5 }
```

-- the IP Routing table

```
ipRoutingTable OBJECT-TYPE
```



SYNTAX SEQUENCE OF IpRouteEntry

ACCESS read-write

STATUS mandatory

::= { ip 21 }

ipRouteEntry OBJECT-TYPE

SYNTAX IpRouteEntry

ACCESS read-write

STATUS mandatory

::= { ipRoutingTable 1 }

IpRouteEntry ::= SEQUENCE {

ipRouteDest

IpAddress,

ipRouteIfIndex

INTEGER,

ipRouteMetric1

INTEGER,

ipRouteMetric2

INTEGER,

ipRouteMetric3

INTEGER,

ipRouteMetric4

INTEGER,

ipRouteNextHop

IpAddress,

ipRouteType

INTEGER,

ipRouteProto

INTEGER,

ipRouteAge

INTEGER,

ipRouteMask

IpAddress

}

ipRouteDest OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE

SYNTAX INTEGER {

    other(1), -- none of the following

    invalid(2), -- an invalidated route

        -- route to directly

    direct(3), -- connected

        -- (sub-)network

        -- route to a non-local

    remote(4) -- host/network/

        -- sub-network

    }

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

-- non-protocol

-- information

-- e.g., manually

local(2), -- configured entries

-- set via a network

netmgmt(3),

-- management protocol

-- obtained via ICMP,

icmp(4), -- e.g., Redirect

-- the following are

-- gateway routing

-- protocols

egp(5),

ggp(6),

hello(7),

rip(8),

is-is(9),

es-is(10),

ciscoIgrp(11),

bbnSpfIgp(12),

ospf(13),

bgp(14)

}

ACCESS read-only

STATUS mandatory

::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipRouteEntry 11 }

-- the IP Address Translation tables

ipNetToMediaTable

OBJECT-TYPE

SYNTAX SEQUENCE OF IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE

SYNTAX IpNetToMediaEntry

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {

ipNetToMediaIfIndex

INTEGER,

ipNetToMediaPhysAddress

OCTET STRING,

ipNetToMediaNetAddress

IpAddress,

ipNetToMediaType

INTEGER

}

ipNetToMediaIfIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

SYNTAX INTEGER {

other(1), -- none of the following

```

        invalid(2), -- an invalidated mapping
        dynamic(3), -- connected (sub-)network

        static(4)
    }
    ACCESS read-write
    STATUS mandatory
    ::= { ipNetToMediaEntry 4 }

-- the ICMP group

icmpInMsgs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 1 }

icmpInErrors OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 5 }

icmpInSrcQuenchs
    OBJECT-TYPE
        SYNTAX Counter
        ACCESS read-only
        STATUS mandatory
        ::= { icmp 6 }

```

icmpInRedirects OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 7 }

icmpInEchos OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

::= { icmp 14 }

icmpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 20 }

icmpOutEchos OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

```

::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 24 }

icmpOutAddrMasks OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { icmp 26 }

-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE
    SYNTAX INTEGER {
        other(1), -- none of the following
        constant(2), -- a constant rto
        rsre(3), -- MIL-STD-1778,
                -- Appendix B

        vanj(4) -- Van Jacobson's
                -- algorithm
    }
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 2 }

```



tcpRtoMax OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { tcp 3 }

tcpMaxConn OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { tcp 7 }

tcpEstabResets OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
  
STATUS mandatory  
::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE

SYNTAX Gauge  
ACCESS read-only  
STATUS mandatory  
::= { tcp 9 }

tcpInSegs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory

```

::= { tcp 10 }

tcpOutSegs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 12 }

-- the TCP connections table

tcpConnTable OBJECT-TYPE
    SYNTAX SEQUENCE OF TcpConnEntry
    ACCESS read-only
    STATUS mandatory
    ::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
    SYNTAX TcpConnEntry
    ACCESS read-only
    STATUS mandatory
    ::= { tcpConnTable 1 }

TcpConnEntry ::= SEQUENCE {
    tcpConnState
        INTEGER,
    tcpConnLocalAddress
        IpAddress,
    tcpConnLocalPort
        INTEGER (0..65535),
    tcpConnRemAddress
        IpAddress,
    tcpConnRemPort
        INTEGER (0..65535)
}

tcpConnState OBJECT-TYPE
    SYNTAX INTEGER {
        closed(1),
        listen(2),
        synSent(3),
        synReceived(4),
        established(5),

```

```

        finWait1(6),
        finWait2(7),
        closeWait(8),
        lastAck(9),
        closing(10),
        timeWait(11)
    }
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE
SYNTAX IpAddress
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
SYNTAX IpAddress
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
::= { tcpConnEntry 5 }

-- additional TCP variables

tcpInErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { tcp 15 }

```

-- the UDP group

udpInDatagrams OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { udp 1 }

udpNoPorts OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { udp 2 }

udpInErrors OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { udp 3 }

udpOutDatagrams OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { udp 4 }

-- the UDP listener table

udpTable

OBJECT-TYPE

SYNTAX SEQUENCE OF UdpEntry  
ACCESS read-only  
STATUS mandatory  
::= { udp 5 }

udpEntry OBJECT-TYPE

SYNTAX UdpEntry  
ACCESS read-only  
STATUS mandatory  
::= { udpTable 1 }

UdpEntry ::= SEQUENCE {

udpLocalAddress  
    IpAddress,  
udpLocalPort  
    INTEGER (0..65535)

}

udpLocalAddress OBJECT-TYPE

SYNTAX IPAddress

ACCESS read-only

STATUS mandatory

::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE

SYNTAX INTEGER (0..65535)

ACCESS read-only

STATUS mandatory

::= { udpEntry 2 }

-- the EGP group

egpInMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 1 }

egpInErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 2 }

egpOutMsgs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 3 }

egpOutErrors OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { egp 4 }

-- the EGP Neighbor table

egpNeighTable OBJECT-TYPE

SYNTAX SEQUENCE OF EgpNeighEntry

ACCESS read-only

STATUS mandatory

::= { egp 5 }

egpNeighEntry OBJECT-TYPE

SYNTAX EgpNeighEntry

ACCESS read-only

STATUS mandatory

::= { egpNeighTable 1 }

EgpNeighEntry ::= SEQUENCE {

egpNeighState

INTEGER,

egpNeighAddr

IpAddress,

egpNeighAs

INTEGER,

egpNeighInMsgs

Counter,

egpNeighInErrs

Counter,

egpNeighOutMsgs

Counter,

egpNeighOutErrs

Counter,

egpNeighInErrMsgs

Counter,

egpNeighOutErrMsgs

Counter,

egpNeighStateUps

Counter,

egpNeighStateDowns

Counter,

egpNeighIntervalHello

INTEGER,

egpNeighIntervalPoll

INTEGER,

egpNeighMode

INTEGER,

egpNeighEventTrigger

INTEGER

}

egpNeighState OBJECT-TYPE

SYNTAX INTEGER {

idle(1),

acquisition(2),

down(3),

up(4),

cease(5)

}

ACCESS read-only

STATUS mandatory  
::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE

SYNTAX IPAddress  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE

SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS  
mandatory  
::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE

SYNTAX Counter

```

ACCESS read-only
STATUS mandatory
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
    SYNTAX Counter
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory

    ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
    SYNTAX INTEGER {
        active(1),
        passive(2)
    }
    ACCESS read-only
    STATUS mandatory
    ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
    SYNTAX INTEGER {
        start(1),
        stop(2)
    }
    ACCESS read-write
    STATUS mandatory
    ::= { egpNeighEntry 15 }

-- additional EGP variables

```



egpAs OBJECT-TYPE  
SYNTAX INTEGER  
ACCESS read-only  
STATUS mandatory  
::= { egp 6 }

-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 1 }

snmpOutPkts OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE  
SYNTAX Counter  
ACCESS  
read-only  
STATUS mandatory  
::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE  
SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 6 }

snmpInBadTypes OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 7 }

snmpInTooBigs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter  
ACCESS read-only  
STATUS mandatory  
::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 18 }

snmpInTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 19 }

snmpOutTooBig OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 22 }

snmpOutReadOnlys OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 23 }

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

::= { snmp 29 }

snmpEnableAuthTraps OBJECT-TYPE

SYNTAX INTEGER {

enabled(1),

disabled(2)

```
}  
ACCESS read-write  
STATUS mandatory  
::= { snmp 30 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-  
MIB
```

No license file was found, but licenses were detected in source scan.

PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY,  
OBJECT-TYPE,  
OBJECT-IDENTITY,  
Unsigned32,  
Counter32,  
NOTIFICATION-TYPE,  
mib-2  
    FROM SNMPv2-SMI          -- [RFC2578]  
TEXTUAL-CONVENTION,  
RowStatus,  
TruthValue  
    FROM SNMPv2-TC          -- [RFC2579]  
OBJECT-GROUP,  
MODULE-COMPLIANCE,  
NOTIFICATION-GROUP  
    FROM SNMPv2-CONF        -- [RFC2580]  
InetAddressType,  
InetAddress  
    FROM INET-ADDRESS-MIB   -- [RFC4001]  
sysDescr  
    FROM SNMPv2-MIB         -- [RFC3418]  
SnmAdminString  
    FROM SNMP-FRAMEWORK-MIB -- [RFC3411]  
docsDevSoftwareGroupV2  
    FROM DOCS-CABLE-DEVICE-MIB -- [RFC4639]  
DocsX509ASN1DEREncodedCertificate,  
docsBpi2CodeDownloadGroup  
    FROM DOCS-IETF-BPI2-MIB -- [RFC4131]  
LongUtf8String  
    FROM SYSAPPL-MIB        -- [RFC2287]  
ifPhysAddress  
    FROM IF-MIB;           -- [RFC2863]
```

pktnetMtaMib MODULE-IDENTITY

LAST-UPDATED "200609180000Z" -- September 18, 2006

ORGANIZATION "IETF IP over Cable Data Network Working Group"

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DESCRIPTION

"This MIB module defines the basic management object for the Multimedia Terminal Adapter devices compliant with PacketCable and IPCablecom requirements.

Copyright (C) The IETF Trust (2006). This version of this MIB module is part of RFC 4682; see the RFC itself for full legal notices."

REVISION "200609180000Z" -- September 18, 2006

DESCRIPTION

"Initial version, published as RFC 4682."

::= { mib-2 140 }

-- Textual Conventions

PkctMtaDevProvEncryptAlg ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

" This textual convention defines various types of the encryption algorithms used for the encryption of the MTA configuration file. The description of the encryption algorithm for each enumerated value is as follows:

'none(0)' no encryption

is used,

'des64CbcMode(1)' DES 64-bit key in CBC mode,

't3Des192CbcMode(2)' 3DES 192-bit key in CBC mode,

'aes128CbcMode(3)' AES 128-bit key in CBC mode,

'aes256CbcMode(4)' AES 256-bit key in CBC mode."

SYNTAX INTEGER {

none (0),

des64CbcMode (1),

t3Des192CbcMode (2),

aes128CbcMode (3),

aes256CbcMode (4)

}

-----  
-- The MTA MIB module only supports a single Provisioning Server.  
-----

pkctMtaNotification OBJECT IDENTIFIER ::= { pkctIetfMtaMib 0 }

pkctMtaMibObjects OBJECT IDENTIFIER ::= { pkctIetfMtaMib 1 }

pkctMtaDevBase OBJECT IDENTIFIER ::= { pkctMtaMibObjects 1 }

pkctMtaDevServer OBJECT IDENTIFIER ::= { pkctMtaMibObjects 2 }

pkctMtaDevSecurity OBJECT IDENTIFIER ::= { pkctMtaMibObjects 3 }

}

pkctMtaDevErrors OBJECT IDENTIFIER ::= { pkctMtaMibObjects 4 }

pkctMtaConformance OBJECT IDENTIFIER ::= { pkctIetfMtaMib 2 }

--

-- The following pkctMtaDevBase group describes the base MTA objects

--

pkctMtaDevResetNow OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object controls the MTA software reset.

Reading this object always returns 'false'. Setting this object to 'true' causes the device to reset immediately and the following actions to occur:

1. All connections (if present) are flushed locally.
2. All current actions such as ringing immediately terminate.
3. Requests for signaling notifications, such as notification based on digit map recognition, are flushed.
4. All endpoints are disabled.
5. The provisioning flow is started at step MTA-1.

If a value is written into an instance of `pktcMtaDevResetNow`, the agent **MUST NOT** retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."  
::= { pktcMtaDevBase 1 }

#### `pktcMtaDevSerialNumber` OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object specifies the manufacturer's serial number of this MTA. The value of this object **MUST** be identical to the value specified in DHCP option 43, sub-option 4. The list of sub-options for DHCP option 43 are defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."  
::= { pktcMtaDevBase 2 }

#### `pktcMtaDevSwCurrentVers` OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

" This object identifies the software version currently operating in the MTA. The MTA **MUST** return a string descriptive of the current software load. This object should use the syntax defined by the individual vendor to identify the software version. The data presented in this object **MUST** be



identical to the software version information contained in the 'sysDescr' MIB object of the MTA. The value of this object MUST be identical to the value specified in DHCP option 43, sub-option 6. The list of sub-options for DHCP option 43 are defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 3 }

pktcMtaDevFQDN OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Fully Qualified Domain Name for this MTA. The MTA FQDN is used to uniquely identify the device to the PacketCable back office elements."

::= { pktcMtaDevBase 4 }

pktcMtaDevEndPntCount OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the number of physical endpoints for this MTA."

::= { pktcMtaDevBase 5 }

pktcMtaDevEnabled OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the MTA Admin Status of this device. If this object is set to 'true', the MTA is administratively enabled, and the MTA MUST be able to interact with the PacketCable entities, such as CMS, Provisioning Server, KDC, and other MTAs and MGs on all PacketCable interfaces. If this object is set to 'false', the MTA is administratively

disabled, and the MTA MUST perform the

following actions for all endpoints:

- Shut down all media sessions, if present.
- Shut down Network Control Signaling (NCS)

signaling by following the Restart in

Progress procedures in the PacketCable NCS specification.

The MTA must execute all actions required to enable or disable the telephony services for all endpoints immediately upon receipt of an SNMP SET operation.

Additionally, the MTA MUST maintain the SNMP Interface for management and also the SNMP Key management interface. Also, the MTA MUST NOT continue Kerberized key management with CMSes until this object is set to 'true'.

Note: MTAs MUST renew the CMS Kerberos tickets according to the PacketCable Security or IPCablecom Specification.

If a value is written into an instance

of

pktcMtaDevEnabled, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
PacketCable Security Specification;  
PacketCable Network-Based Call Signaling Protocol

Specification."

::= { pktcMtaDevBase 6 }

pktcMtaDevTypeIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object provides the MTA device type identifier. The value of this object must be a copy of the DHCP option 60 value exchanged between the MTA and the DHCP server. The DHCP option 60 value contains an ASCII-encoded string identifying capabilities of the MTA as defined in the PacketCable MTA Device Provisioning Specification."

#### REFERENCE

" RFC 2132, DHCP Options and BOOTP Vendor Extensions;  
PacketCable

MTA Device Provisioning Specification."

::= { pktcMtaDevBase 7 }

pktcMtaDevProvisioningState OBJECT-TYPE

```
SYNTAX INTEGER {  
    pass (1),  
    inProgress (2),  
    failConfigFileError (3),  
    passWithWarnings (4),  
    passWithIncompleteParsing (5),  
    failureInternalError (6),  
    failureOtherReason (7)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates the completion state of the MTA device provisioning process.

pass:

If the configuration file could be parsed successfully and the MTA is able to reflect the same in its MIB, the MTA MUST return the value 'pass'.

inProgress:

If the MTA is in the process of being provisioned, the MTA MUST return the value 'inProgress'.

failConfigFileError:

If the configuration file was in error due to incorrect values in the mandatory parameters, the MTA MUST reject the configuration file, and the MTA MUST return the value

'failConfigFileError'.

passWithWarnings:

If the configuration file had proper values for all the mandatory parameters but has errors in any of the optional parameters (this includes any vendor-specific Object Identifiers (OIDs) that are incorrect or not known to the MTA), the MTA MUST return the value 'passWithWarnings'.

passWithIncompleteParsing:

If the configuration file is valid but the MTA cannot reflect the same in its configuration (for example, too many entries caused memory exhaustion), it must accept the CMS configuration entries related, and the MTA MUST

return the value 'passWithIncompleteParsing'.

failureInternalError:

If the configuration file cannot be parsed due to an Internal error, the MTA MUST return the value 'failureInternalError'.

failureOtherReason:

If the MTA cannot accept the configuration file for any other reason than the ones stated above, the MTA MUST return the value 'failureOtherReason'.

When a final SNMP INFORM is sent as part of Step 25 of the MTA Provisioning process, this parameter is also included in the final INFORM message."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 8 }

pktcMtaDevHttpAccess OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object indicates whether the HTTP protocol is supported for the MTA configuration file transfer."

::= { pktcMtaDevBase 9 }

pktcMtaDevProvisioningTimer OBJECT-TYPE

SYNTAX Unsigned32

(0..30)

UNITS "minutes"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines the time interval for the provisioning flow to complete. The MTA MUST finish all provisioning operations starting from the moment when an MTA receives its DHCP ACK and ending at the moment when the MTA downloads its configuration file (e.g., MTA5 to MTA23) within the period of time set by this object.

Failure to comply with this condition constitutes a provisioning flow failure. If the object is set to 0, the MTA MUST ignore the provisioning timer condition.

If a value is written into an instance of

pktcMtaDevProvisioningTimer, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

DEFVAL {10}

::= {pktcMtaDevBase 10}

pktcMtaDevProvisioningCounter

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object counts the number of times the provisioning cycle has looped through step MTA-1."

::= {pktcMtaDevBase 11}

pktcMtaDevErrorOidsTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table contains the list of configuration errors or warnings the MTA encountered when parsing the configuration file it received from the Provisioning Server.

For each error, an entry is created in this table, containing the configuration parameters the MTA rejected and the associated reason (e.g., wrong or unknown OID, inappropriate object values). If the MTA did not report a provisioning state of 'pass(1)' in the pktcMtaDevProvisioningState object, this

table MUST be

populated for each error or warning instance. Even if different parameters share the same error type (e.g., all realm name configuration parameters are invalid), all observed errors or warnings must be reported as different instances. Errors are placed into the table in no particular order. The table MUST be cleared each time

the MTA reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= {pktcMtaDevBase 12 }

pktcMtaDevErrorOidsEntry OBJECT-TYPE

SYNTAX PktcMtaDevErrorOidsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This entry contains the necessary information the MTA MUST attempt to provide in case of configuration file errors or warnings."

INDEX { pktcMtaDevErrorOidIndex }

::= {pktcMtaDevErrorOidsTable 1 }

PktcMtaDevErrorOidsEntry ::= SEQUENCE {

pktcMtaDevErrorOidIndex Unsigned32,

pktcMtaDevErrorOid SnmpAdminString,

pktcMtaDevErrorValue SnmpAdminString,

pktcMtaDevErrorReason SnmpAdminString

}

pktcMtaDevErrorOidIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..1024)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object is the index of the MTA configuration error table. It is an integer value that starts at value '1' and is incremented for each encountered configuration file error or warning.

The maximum number of errors or warnings that can be recorded in the pktcMtaDevErrorOidsTable is set to 1024 as a configuration file is usually validated by operators before deployment. Given the possible number of configuration parameter assignments in the MTA configuration file, 1024 is perceived as a sufficient limit even with future extensions.

If the number of the errors in the configuration file

exceeds 1024, all errors beyond the 1024th one MUST be ignored and not be reflected in the pktcMtaDevErrorOidsTable."

::= {pktcMtaDevErrorOidsEntry 1 }

pktcMtaDevErrorOid OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a human readable representation (character string) of the OID corresponding to the configuration file parameter that caused the particular error.

For example, if the value of the pktcMtaDevEnabled object in the configuration file caused an error, then this object instance will contain the human-readable string of '1.3.6.1.2.1.140.1.1.6.0'.

If the MTA generated an error because it was not able to recognize a particular OID, then this object instance would contain an empty value (zero-length string).

For example,

if the value of an OID in the configuration file was interpreted by the MTA as being 1.2.3.4.5, and if the MTA was not able to recognize this OID as a valid one, this object instance will contain a zero-length string.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the pktcMtaDevErrorOid of the table's 1024th entry MUST contain a human-readable representation of the pktcMtaDevErrorsTooManyErrors object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'.

Note that the syntax of this object is SnmpAdminString instead of OBJECT IDENTIFIER because the object value may not be a valid OID due to human or configuration tool encoding errors."

::= {pktcMtaDevErrorOidsEntry 2}

pktcMtaDevErrorValue OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This

object contains the value of the OID corresponding to the configuration file parameter that caused the error.

If the MTA cannot recognize the OID of the configuration parameter causing the error, then this object instance contains the OID itself as interpreted by the MTA in human-readable representation.

If the MTA can recognize the OID but generate an error due to a wrong value of the parameter, then the object

instance contains the erroneous value of the parameter as read from the configuration file.

In both cases, the value of this object must be represented in human-readable form as a character string. For example, if the value of the `pktcMtaDevEnabled` object in the configuration file was 3 (invalid value), then the `pktcMtaDevErrorValue` object instance will contain the human-readable (string) representation of value '3'.

Similarly, if the OID in the configuration file has been interpreted by the MTA as being 1.2.3.4.5 and the MTA cannot recognize this OID as a valid one, then this `pktcMtaDevErrorValue` object instance will contain human readable (string) representation of value '1.2.3.4.5'.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the `pktcMtaDevErrorValue` of the table's 1024th entry MUST contain a human-readable representation of the `pktcMtaDevErrorsTooManyErrors` object; i.e., the string '1.3.6.1.2.1.140.1.1.4.1.0'."

```
::= {pktcMtaDevErrorOidsEntry 3}
```

`pktcMtaDevErrorReason` OBJECT-TYPE

SYNTAX `SnmpAdminString`

MAX-ACCESS `read-only`

STATUS `current`

DESCRIPTION

" This object indicates the reason for the error or warning, as per the MTA's interpretation, in human-readable form. For example:

'VALUE NOT IN RANGE', 'VALUE DOES NOT MATCH TYPE',  
'UNSUPPORTED VALUE', 'LAST 4 BITS MUST BE SET TO ZERO',  
'OUT OF MEMORY - CANNOT STORE'.

This object may also contain vendor specific errors for private vendor OIDs and any proprietary error codes or messages that can help diagnose configuration errors.

If the number of errors in the configuration file exceeds 1024, then for all subsequent errors, the `pktcMtaDevErrorReason` of the table's 1024th entry MUST contain a human-readable string indicating the reason for an error; for example,



'Too many errors in the configuration file'.  
::= {pktcMtaDevErrorOidsEntry 4}

--  
-- The following group describes server access and parameters used

-- for the initial MTA provisioning and bootstrapping phases.  
--

pktcMtaDevDhcpServerAddressType OBJECT-TYPE  
SYNTAX InetAddressType  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
" This object contains the Internet address type for the  
PacketCable DHCP servers specified in MTA MIB."  
DEFVAL { ipv4 }  
::= { pktcMtaDevServer 1 }

pktcMtaDevServerDhcp1 OBJECT-TYPE  
SYNTAX InetAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
" This object contains the Internet Address of the primary  
DHCP server the MTA uses during provisioning.  
The type of this address is determined by the value of  
the pktcMtaDevDhcpServerAddressType object.  
When the latter has the value 'ipv4(1)', this object  
contains the IP address of the primary DHCP  
server. It is provided by the CM to the MTA via the DHCP  
option code 122, sub-option 1, as defined in RFC 3495.

The behavior of this object when the value of  
pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'  
is not presently specified, but it may be specified  
in future versions of this MIB module.

If this object is of value  
0.0.0.0, the MTA MUST stop all provisioning  
attempts, as well as all other activities.

If this object is of value 255.255.255.255, it means  
that there was no preference given for the primary  
DHCP server, and, the MTA must follow the logic of  
RFC2131, and the value of DHCP option 122,  
sub-option 2, must be ignored."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 2131, Dynamic Host Configuration Protocol;  
RFC 3495, DHCP Option for CableLabs Client Configuration."  
::= { pktcMtaDevServer 2 }

pktcMtaDevServerDhcp2 OBJECT-TYPE

SYNTAX InetAddress  
MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet Address of the secondary  
DHCP server the MTA uses during provisioning.  
The type of this address  
is determined by the value of  
the pktcMtaDevDhcpServerAddressType object.  
When the latter has the value 'ipv4(1)', this object  
contains the IP address of the secondary DHCP  
server. It is provided by the CM to the MTA via the DHCP  
option code 122, sub-option 2, as defined in RFC 3495.

The behavior of this object when the value of  
pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'  
is not presently specified, but it may be specified  
in future versions of this MIB module.  
If there was no secondary DHCP server provided in DHCP  
Option 122, sub-option 2, this object must return the value  
0.0.0.0."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3495, DHCP Option for CableLabs Client Configuration."  
::= { pktcMtaDevServer 3 }

pktcMtaDevDnsServerAddressType OBJECT-TYPE

SYNTAX InetAddressType  
MAX-ACCESS  
read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the  
PacketCable DNS servers specified in MTA MIB."

DEFVAL { ipv4 }  
::= { pktcMtaDevServer 4 }

pktcMtaDevServerDns1 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the primary DNS server to be used by the MTA. The type of this address is determined by the value of the pktcMtaDevDnsServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the primary DNS server. As defined in RFC 2132, PacketCable-compliant MTAs receive the IP addresses of the DNS Servers in DHCP option 6. The behavior of this object when the value of pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'

is not presently specified, but it may be specified

in future versions of this MIB module.

If a value is written into an instance of pktcMtaDevServerDns1, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification; RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 5 }

pktcMtaDevServerDns2 OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the IP Address of the secondary DNS server to be used by the MTA. The type of this address is determined by the value of the pktcMtaDevDnsServerAddressType object. When the latter has the value 'ipv4(1)', this object contains the IP address of the secondary DNS server. As defined in RFC 2132, PacketCable-compliant MTAs receive the IP addresses of the DNS Servers in DHCP option 6.

The behavior of this object when the value of pktcMtaDevDnsServerAddressType is other than 'ipv4(1)' is not presently specified, but it may be specified in future versions of this MIB module.

If a value is written into an instance of pktcMtaDevServerDns2, the agent MUST NOT retain the

supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 2132, DHCP Options and BOOTP Vendor Extensions."

::= { pktcMtaDevServer 6 }

pktcMtaDevTimeServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the Internet address type for the  
PacketCable Time servers specified in MTA MIB."

DEFVAL { ipv4 }

::= { pktcMtaDevServer 7 }

pktcMtaDevTimeServer OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the Internet Address of the Time  
Server used by an S-MTA for Time Synchronization. The type  
of this address is determined by the value of the  
pktcMtaDevTimeServerAddressType object.

When the latter has the value 'ipv4(1)', this object  
contains the IP address of the Time Server used for Time  
Synchronization.

In the case of an S-MTA, this object must be  
populated with a value other than 0.0.0.0 as obtained  
from DHCP option 4. The protocol by which the time of day  
MUST be retrieved is defined in RFC 868.

In the case of an E-MTA, this object must contain a  
value of 0.0.0.0 if the address type is 'ipv4(1)' since  
an E-MTA does not use the Time Protocol for time  
synchronization (an E-MTA uses the time retrieved by the  
DOCSIS cable modem).

The behavior of this object when the value of  
pktcMtaDevTimeServerAddressType is other than 'ipv4(1)'  
is not presently specified, but it may be specified in  
future versions of this MIB module.

If a value is written into an instance of  
pktcMtaDevTimeServer, the agent MUST NOT retain the  
supplied value across MTA re-initializations or reboots."

REFERENCE

" RFC 868, Time Protocol;  
RFC 2131, Dynamic Host Configuration Protocol;  
RFC 2132, DHCP Options and BOOTP Vendor Extensions."  
 ::= { pktcMtaDevServer 8 }

pktcMtaDevConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the MTA device configuration file information, including the access method, the server name, and the configuration file name. The value of this object is the Uniform Resource Locator (URL)

of the configuration

file for TFTP or HTTP download.

If this object value is a TFTP URL, it must be formatted as defined in RFC 3617.

If this object value is an HTTP URL, it must be formatted as defined in RFC 2616.

If the MTA SNMP Enrollment mechanism is used, then the MTA must download the file provided by the Provisioning Server

during provisioning via an SNMP SET on this object.

If the MTA SNMP Enrollment mechanism is not used, this object MUST contain the URL value corresponding to the 'siaddr' and 'file' fields received in the DHCP ACK to locate the configuration file: the 'siaddr' and 'file' fields represent the host and file of the TFTP URL, respectively. In this case, the MTA MUST return an 'inconsistentValue' error in response to SNMP SET operations.

The MTA MUST return a zero-length string if the server address (host part of the URL) is unknown.

If a value is written into an instance of pktcMtaDevConfigFile, the agent MUST NOT retain the supplied value across MTA re-initializations or reboots."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3617, URI Scheme for TFTP; RFC 2616, HTTP 1.1"

::= { pktcMtaDevServer 9 }

pktcMtaDevSnmpEntity OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

" This object contains the FQDN of the SNMP entity of the Provisioning Server. When the MTA SNMP Enrollment Mechanism is used, this object represents the server that the MTA communicates with, that it receives the configuration file URL from, and that it sends the enrollment notification to. The SNMP entity is also the destination entity for all the provisioning notifications. It

may be used for post-provisioning

SNMP operations. During the provisioning phase, this SNMP entity FQDN is supplied to the MTA via DHCP option 122, sub-option 3, as defined in RFC 3495. The MTA must resolve the FQDN value before its very first network interaction with the SNMP entity during the provisioning phase."

## REFERENCE

" PacketCable MTA Device Provisioning Specification;  
RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 10 }

pktcMtaDevProvConfigHash OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(20))

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

" This object contains the hash value of the contents of the configuration file.

The authentication algorithm is Secure Hashing Algorithm 1 (SHA-1), and the length is 160 bits. The hash calculation MUST follow the requirements defined in the

PacketCable Security Specification. When the MTA SNMP Enrollment mechanism is used, this hash value is calculated and sent to the MTA prior to sending the config file. This object value is then provided by the Provisioning server via an SNMP SET operation.

When the MTA SNMP Enrollment mechanism is not in use, the hash value is provided in the configuration file itself, and it is also calculated by the MTA. This object value MUST represent the hash value calculated by the MTA.

When the MTA SNMP Enrollment mechanism is not in use, the MTA must reject all SNMP SET operations on this object and return an 'inconsistentValue' error.

If a value is written into an instance of  
pktcMtaDevProvConfigHash, the agent MUST NOT retain the  
supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning  
Specification;  
PacketCable Security Specification."  
::= { pktcMtaDevServer 11 }

pktcMtaDevProvConfigKey OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(32))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object contains the key used to encrypt/decrypt  
the configuration file when secure SNMPv3 provisioning  
is used.

The value of this object is provided along with the  
configuration file information (pktcMtaDevConfigFile)  
and hash (pktcMtaDevProvConfigHash) by the Provisioning  
Server via SNMP SET once the configuration file has been  
created, as defined by the PacketCable Security  
specification.

The privacy algorithm is defined by the  
pktcMtaDevProvConfigEncryptAlg MIB object. The  
MTA requirements related to the privacy algorithm are  
defined in the PacketCable Security Specification.

If this object is set at  
any other provisioning step than  
that allowed by the PacketCable MTA Device

Provisioning Specification, the MTA SHOULD return  
an 'inconsistentValue' error.

This object must not be used in non secure provisioning  
mode. In non-secure provisioning modes, the MTA SHOULD  
return an 'inconsistentValue' in response to SNMP SET  
operations, and the MTA SHOULD return a zero-length  
string in response to SNMP GET operations.

If a value is written into an instance of  
pktcMtaDevProvConfigKey, the agent MUST NOT retain the  
supplied value across MTA re-initializations or reboots."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification;  
PacketCable Security Specification."

::= { pktcMtaDevServer 12 }

pktcMtaDevProvConfigEncryptAlg OBJECT-TYPE

SYNTAX PktcMtaDevProvEncryptAlg

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines the encryption algorithm used for  
privacy protection of the MTA Configuration File content."

DEFVAL { des64CbcMode }

::= { pktcMtaDevServer 13 }

pktcMtaDevProvSolicitedKeyTimeout OBJECT-TYPE

SYNTAX Unsigned32 (0..180)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines a Kerberos Key Management timer on the  
MTA. It is the time period during which the MTA saves the  
nonce and Server Kerberos Principal Identifier to match an  
AP Request and its associated AP Reply response from the  
Provisioning Server.

After the timeout has been exceeded, the client discards  
this (nonce, Server Kerberos Principal Identifier) pair,  
after which it will no longer accept a matching AP Reply.

This timer only applies when the Provisioning Server  
initiated key management for SNMPv3 (with a  
Wake

Up message).

If this object is set to a zero value, the MTA MUST return  
an 'inconsistentValue' in response to SNMP SET operations.

This object should not be used in non-secure provisioning  
modes. In non-secure provisioning modes, the MTA MUST  
return an 'inconsistentValue' in response to SNMP SET  
operations, and the MTA MUST return a zero value in

response to SNMP GET operations.

If a value is written into an instance of  
pktcMtaDevProvSolicitedKeyTimeout, the agent MUST NOT  
retain the supplied value across MTA re-initializations  
or reboots."

DEFVAL { 3 }

::= { pktcMtaDevServer 14 }



```

-----
--
-- Unsolicited key updates are retransmitted according to an
-- exponential back-off mechanism using two timers and a maximum
-- retry counter for AS replies.
-- The initial retransmission timer value is the nominal
timer
-- value (pktcMtaDevProvUnsolicitedKeyNomTimeout). The
-- retransmissions occur with an exponentially increasing interval
-- that caps at the maximum timeout value
-- (pktcMtaDevProvUnsolicitedKeyMaxTimeout).
-- Retransmissions stop when the maximum retry counter is reached
-- (pktcMtaDevProvUnsolicitedKeyMaxRetries).
-- For example, with values of 3 seconds for the nominal
-- timer, 100 seconds for the maximum timeout, and 8 retries max,
-- and with an exponential value of 2, this results in
-- retransmission intervals will be 3 s, 6 s, 12 s, 24 s, 48 s,
-- 96 s, 100 s, and 100 s;
-- retransmissions then stop because the maximum number of
-- retries (8) has been reached.
--
-----
--
-- Timeouts for unsolicited key management updates are only
-- pertinent before the first SNMPv3 message is sent between the
-- MTA and the Provisioning Server and before the configuration
-- file is loaded.
--
-----

```

pktcMtaDevProvUnsolicitedKeyMaxTimeout

OBJECT-TYPE

SYNTAX Unsigned32 (0..600)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object defines the timeout value that applies to an MTA-initiated AP-REQ/REP key management exchange with the Provisioning Server in SNMPv3 provisioning.

It is the maximum timeout value, and it may not be exceeded in the exponential back-off algorithm. If the DHCP option

code 122, sub-option 5, is provided to the MTA, it overwrites this value.

In non-secure provisioning modes, the MTA MUST

return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."

DEFVAL {600}

::= { pktcMtaDevServer 15 }

pktcMtaDevProvUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (0..600)

UNITS "seconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object defines the starting value of the timeout for the AP-REQ/REP Backoff and Retry mechanism with exponential timeout in SNMPv3 provisioning. If the DHCP option code 122, sub-option 5, is provided the MTA, it overwrites this value. In non-secure provisioning modes, the MTA MUST return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."

DEFVAL {3}

::= { pktcMtaDevServer 16}

pktcMtaDevProvUnsolicitedKeyMaxRetries OBJECT-TYPE

SYNTAX Unsigned32 (0..32)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a retry counter that applies to an MTA-initiated AP-REQ/REP key management exchange with the Provisioning Server in secure SNMPv3 provisioning. It is the maximum number of retries before the MTA stops attempting to establish a Security Association with Provisioning Server. If the DHCP option code 122, sub-option 5, is provided to the MTA, it overwrites this value. If this object is set to a zero value, the MTA MUST return an 'inconsistentValue' in response to SNMP SET operations. In non-secure provisioning modes, the MTA MUST return a zero value in response to SNMP GET operations."

REFERENCE

" PacketCable Security Specification."  
DEFVAL {8}  
::= { pktcMtaDevServer 17 }

pktcMtaDevProvKerbRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the name of the associated provisioning Kerberos realm acquired during the MTA4 provisioning step (DHCP Ack) for SNMPv3 provisioning. The uppercase ASCII representation

of the associated

Kerberos realm name MUST be used by both the Manager (SNMP entity) and the MTA.

The Kerberos realm name for the Provisioning Server is supplied to the MTA via DHCP option code 122, sub-option 6, as defined in RFC 3495. In secure SNMP provisioning mode, the value of the Kerberos realm name for the Provisioning Server supplied in the MTA configuration file must match the value supplied in the DHCP option code 122, sub-option 6. Otherwise, the value of this object must contain the value supplied in DHCP Option 122, sub-option 6."

REFERENCE

" PacketCable MTA Device Provisioning Specification; RFC 3495, DHCP Option for CableLabs Client Configuration."

::= { pktcMtaDevServer 18 }

pktcMtaDevProvState OBJECT-TYPE

SYNTAX INTEGER {

operational (1),

waitingForSnmpSetInfo

(2),

waitingForTftpAddrResponse (3),

waitingForConfigFile (4)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object defines the MTA provisioning state.

If the state is:

'operational(1)', the device has completed the loading and processing of the initialization parameters.

'waitingForSnmpSetInfo(2)', the device is waiting on its configuration file download access information.

Note that this state is only reported when the MTA

SNMP enrollment mechanism is used.

'waitingForTftpAddrResponse(3)', the device has sent a DNS request to resolve the server providing the configuration file, and it is awaiting for a response.

Note that this state is only reported when the MTA SNMP enrollment mechanism is used.

'waitingForConfigFile(4)', the device has sent a request via TFTP or HTTP for the download of its configuration file, and it is awaiting for a response or the file download is in progress."

#### REFERENCE

" PacketCable MTA Device Provisioning Specification, PacketCable Security Specification."

::= { pktcMtaDevServer 19 }

--

-- The following object group describes the security objects.

--

pktcMtaDevManufacturerCertificate OBJECT-TYPE

SYNTAX DocsX509ASN1DEREncodedCertificate

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA Manufacturer Certificate.

The object value must be the ASN.1 DER encoding of the MTA manufacturer's X.509 public key certificate. The MTA Manufacturer Certificate is issued to each MTA manufacturer and is installed into each MTA at the time of manufacture or with a secure code download. The specific requirements

related to this certificate are defined in

the PacketCable or IPCablecom Security specifications."

REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 1 }

pktcMtaDevCertificate OBJECT-TYPE

SYNTAX DocsX509ASN1DEREncodedCertificate

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA Device Certificate.  
The object value must be the ASN.1 DER encoding of the  
MTA's X.509 public-key certificate issued by the  
manufacturer and installed into the MTA at the time of

manufacture or with a secure code download.

This certificate contains the MTA MAC address. The  
specific requirements related to this certificate are  
defined in the PacketCable or IPCablecom Security  
specifications."

REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 2 }

pktcMtaDevCorrelationId OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains a correlation ID, an arbitrary value  
generated by the MTA that will be exchanged as part of the  
device capability data to the Provisioning Application.  
This random value is used as an identifier to correlate  
related events in the MTA provisioning sequence.  
This value is intended for use only during the MTA  
initialization and configuration file download."

REFERENCE

" PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevSecurity 3 }

pktcMtaDevTelephonyRootCertificate OBJECT-TYPE

SYNTAX DocsX509ASN1DEREncodedCertificate

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the telephony Service Provider Root  
certificate. The object value is the ASN.1 DER encoding of  
the IP Telephony Service Provider

Root X.509 public key

certificate. This certification is stored in the MTA  
non-volatile memory and can be updated with a secure code  
download. This certificate is used to validate the initial

AS Reply received by the MTA from the Key Distribution Center (KDC) during the MTA initialization. The specific requirements related to this certificate are defined in the PacketCable or IPCablecom Security specifications."

#### REFERENCE

" PacketCable Security Specification."

::= { pktcMtaDevSecurity 4 }

-----

--

-- Informative Procedures for Setting up Security Associations

--

-- A Security Association may be set up either via configuration or  
-- via NCS signaling.

--

-- I. Security association setup via configuration.

--

-- The realm must be configured first. Associated with the realm  
-- is a KDC. The realm table (pktcMtaDevRealmTable)  
indicates

-- information about the realm (e.g., name, organization name) and  
-- parameters associated with KDC communications (e.g., grace  
-- periods, AS Request/AS Reply adaptive back-off parameters).

--

-- Once the realm is established, one or more CMS(es) may be  
-- defined in the realm. Associated with each CMS  
-- entry in the pktcMtaDevCmsTable is an explicit reference  
-- to a Realm via the realm name (pktcMtaDevCmsKerbRealmName),  
-- the FQDN of the CMS, and parameters associated with IPSec  
-- key management with the CMS (e.g., clock skew, AP Request/  
-- AP Reply adaptive back-off parameters).

--

-- II. Security association setup via NCS signaling.

--

-- The procedure of establishing the Security Associations  
-- for NCS signaling is described in the PacketCable Security  
-- specification.

-- It involves the analysis of the pktcNcsEndPntConfigTable row  
-- for the corresponding endpoint number and the correlation of  
-- the CMS FQDN from this row

with the CMS Table and

-- consequently, with the Realm Table. Both of these tables  
-- are defined below. The pktcNcsEndPntConfigTable is defined in  
-- the IP over Cable Data Network (IPCDN)

-- NCS Signaling MIB [NCSSIGMIB].

--  
-- III. When the MTA receives wake-up or re-key messages from a  
-- CMS, it performs key management based on the corresponding  
-- entry in the CMS table. If the matching CMS entry does not  
-- exist, it must ignore the wake-up or re-key messages.  
--

=====  
=====

-- pktcMtaDevRealmTable

-- The pktcMtaDevRealmTable shows the KDC realms. The table is  
-- indexed with pktcMtaDevRealmIndex. The Realm Table contains the  
-- pktcMtaDevRealmName in conjunction with any server that needs  
-- a Security Association with the MTA. Uppercase must be used  
-- to compare the pktcMtaDevRealmName content.  
--

=====  
pktcMtaDevRealmAvailSlot

OBJECT-TYPE

SYNTAX Unsigned32 (0..64)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the index number of the first  
available entry in the realm table (pktcMtaDevRealmTable).

If all the entries in the realm table have been assigned,  
this object contains the value of zero.

A management station should create new entries in the  
realm table, using the following procedure:

First, issue a management protocol retrieval operation  
to determine the value of the first available index in the  
realm table (pktcMtaDevRealmAvailSlot).

Second, issue a management protocol SET operation  
to create an instance of the pktcMtaDevRealmStatus  
object by setting its value to 'createAndWait(5)'.  
Third, if the SET operation succeeded, continue

modifying the object instances corresponding to the newly  
created conceptual row, without fear of collision with  
other management stations. When all necessary conceptual

columns of the row are properly populated (via SET operations or default values), the management station may SET the pktcMtaDevRealmStatus object to 'active(1)'.  
::= { pktcMtaDevSecurity 5 }

pktcMtaDevRealmTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevRealmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object contains the realm table.

The CMS table (pktcMtaDevCmsTable) and the realm table (pktcMtaDevRealmTable) are used for managing the MTA-CMS Security Associations. The realm table defines the Kerberos realms for the Application Servers (CMSes and the Provisioning Server)."

::= { pktcMtaDevSecurity 6 }

pktcMtaDevRealmEntry OBJECT-TYPE

SYNTAX

PktcMtaDevRealmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table entry object lists the MTA security parameters for a single Kerberos realm. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcMtaDevRealmIndex }

::= { pktcMtaDevRealmTable 1 }

PktcMtaDevRealmEntry ::= SEQUENCE {

pktcMtaDevRealmIndex Unsigned32,  
pktcMtaDevRealmName SnmpAdminString,  
pktcMtaDevRealmPkinitGracePeriod Unsigned32,  
pktcMtaDevRealmTgsGracePeriod Unsigned32,  
pktcMtaDevRealmOrgName LongUtf8String,  
pktcMtaDevRealmUnsolicitedKeyMaxTimeout Unsigned32,  
pktcMtaDevRealmUnsolicitedKeyNomTimeout Unsigned32,  
pktcMtaDevRealmUnsolicitedKeyMaxRetries Unsigned32,  
pktcMtaDevRealmStatus RowStatus  
}

pktcMtaDevRealmIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..64)

MAX-ACCESS not-accessible



STATUS

current

DESCRIPTION

" This object defines the realm table index."

::= { pktcMtaDevRealmEntry 1 }

pktcMtaDevRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object identifies the Kerberos realm name in all capitals. The MTA MUST prohibit the instantiation of any two rows with identical Kerberos realm names. The MTA MUST also verify that any search operation involving Kerberos realm names is done using the uppercase ASCII representation of the characters."

::= { pktcMtaDevRealmEntry 2 }

pktcMtaDevRealmPkinitGracePeriod OBJECT-TYPE

SYNTAX Unsigned32 (15..600)

UNITS "minutes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the PKINIT Grace Period. For the purpose of key management with Application Servers (CMSes

or

the Provisioning Server), the MTA must utilize the

PKINIT exchange to obtain Application Server tickets. The MTA may utilize the PKINIT exchange to obtain Ticket Granting Tickets (TGTs), which are then used to obtain Application Server tickets in a TGS exchange.

The PKINIT exchange occurs according to the current Ticket Expiration Time (TicketEXP) and on the PKINIT Grace Period (PKINITGP). The MTA MUST initiate the PKINIT exchange at the time: TicketEXP - PKINITGP."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 15 }

::= { pktcMtaDevRealmEntry 3 }

pktcMtaDevRealmTgsGracePeriod OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "minutes"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the Ticket Granting Server Grace Period (TGSGP). The Ticket Granting Server (TGS) Request/Reply exchange may be performed

by the MTA

on demand whenever an Application Server ticket is needed to establish security parameters. If the MTA possesses a ticket that corresponds to the Provisioning Server or a CMS that currently exists in the CMS table, the MTA MUST initiate the TGS Request/Reply exchange at the time: TicketEXP - TGSGP."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 10 }

::= { pktcMtaDevRealmEntry 4 }

pktcMtaDevRealmOrgName OBJECT-TYPE

SYNTAX LongUtf8String

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the X.500 organization name attribute as defined in the subject name of the service provider certificate."

REFERENCE

" PacketCable Security Specification;  
RFCs 3280 and 4630, Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile"

::= { pktcMtaDevRealmEntry 5 }

pktcMtaDevRealmUnsolicitedKeyMaxTimeout OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the maximum time the MTA will attempt to perform the exponential back-off algorithm. This timer only applies when the MTA initiated key management. If the DHCP option code 122, sub-option 4, is provided to the MTA, it overwrites this value."

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).

Retransmissions stop when the maximum retry counter is reached (pktcMatDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, retransmission intervals will be 3 s, 6 s, 12 s, 20 s, and 20 s, and retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 100 }

::= { pktcMtaDevRealmEntry 6 }

pktcMtaDevRealmUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..600000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object specifies the initial timeout value for the AS-REQ/AS-REP exponential back-off and retry mechanism. If the DHCP option code 122, sub-option 4, is provided to the MTA, it

overwrites this value.

This value should account for the average roundtrip time between the MTA and the KDC, as well as the processing delay on the KDC.

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).

Retransmissions stop when the maximum retry counter is

reached (pktcMatDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, in retransmission intervals will be 3 s, 6 s,

12 s, 20 s, and 20 s; retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 3000 }

::= { pktcMtaDevRealmEntry 7 }

pktcMtaDevRealmUnsolicitedKeyMaxRetries OBJECT-TYPE

SYNTAX Unsigned32 (0..1024)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object specifies the maximum number of retries the MTA attempts to obtain a ticket from the KDC.

Unsolicited key updates are retransmitted according to an exponential back-off mechanism using two timers and a maximum retry counter for AS replies.

The initial retransmission timer value is the nominal timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout). The retransmissions occur with an exponentially increasing interval that caps at the maximum timeout value (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).

Retransmissions stop when the maximum retry counter is reached (pktcMatDevRealmUnsolicitedMaxRetries).

For example, with values of 3 seconds for the nominal timer, 20 seconds for the maximum timeout, and 5 retries max, retransmission intervals will be 3 s, 6 s, 12 s, 20 s, and 20 s; retransmissions then stop because the maximum number of retries has been reached."

#### REFERENCE

" PacketCable Security Specification."

DEFVAL { 5 }

::= { pktcMtaDevRealmEntry 8 }

pktcMtaDevRealmStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the row status of this realm in the realm table (pktcMtaDevRealmTable).

An entry in this table is not qualified for activation until the object instances of all corresponding columns have been initialized, either by default values, or

via

explicit SET operations. Until all object instances in this row are initialized, the status value for this realm must be 'notReady(3)'.  
In particular, two columnar objects must be explicitly SET: the realm name (pktcMtaDevRealmName) and the organization name (pktcMtaDevRealmOrgName). Once these 2 objects have been set and the row status is SET to 'active(1)', the MTA MUST NOT allow any modification of these 2 object values.

The value of this object has no effect on whether other columnar objects in this row can be modified."

::= { pktcMtaDevRealmEntry 9 }

```
-----  
--  
-- The CMS table, pktcMtaDevCmsTable  
--  
-- The CMS table and the realm table (pktcMtaDevRealmTable) are used  
-- for managing the MTA signaling security. The CMS table defines  
-- the CMSes the MTA is allowed to communicate with and contains  
-- the  
parameters describing the SA establishment between the MTA  
-- and a CMS.  
-- The CMS table is indexed by pktcMtaDevCmsIndex. The table  
-- contains the CMS FQDN (pktcMtaDevCmsFQDN) and the associated  
-- Kerberos realm name (pktcMtaDevCmsKerbRealmName) so that the MTA  
-- can find the corresponding Kerberos realm name in the  
-- pktcMtaDevRealmTable.  
--  
-----
```

pktcMtaDevCmsAvailSlot OBJECT-TYPE

SYNTAX Unsigned32 (0..128)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the index number of the first available entry in the CMS table (pktcMtaDevCmsTable). If all the entries in the CMS table have been assigned, this object contains the value of zero. A management station should create new entries in the CMS table, using the following procedure:

First, issue a management protocol retrieval operation

to determine the value of the first available index in the CMS table (pktcMtaDevCmsAvailSlot).

Second, issue a management protocol SET operation to create an instance of the pktcMtaDevCmsStatus object by setting its value to 'createAndWait(5)'.

Third, if the SET operation succeeded, continue modifying the object instances corresponding to the newly created conceptual row, without fear of collision with other management stations. When all necessary conceptual columns of the row are properly populated (via SET operations or default values), the management station may SET the pktcMtaDevCmsStatus object to 'active(1)'."

```
::= { pktcMtaDevSecurity 7 }
```

pktcMtaDevCmsTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcMtaDevCmsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the CMS table.

The CMS table (pktcMtaDevCmsTable)

and the realm table

(pktcMtaDevRealmTable) are used for managing security between the MTA and CMSes. Each CMS table entry defines a CMS the managed MTA is allowed to communicate with and contains security parameters for key management with that CMS."

```
::= { pktcMtaDevSecurity 8 }
```

pktcMtaDevCmsEntry OBJECT-TYPE

SYNTAX PktcMtaDevCmsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table entry object lists the MTA key management parameters used when establishing Security Associations with a CMS. The conceptual rows MUST NOT persist across

MTA reboots."

INDEX { pktcMtaDevCmsIndex }

::= { pktcMtaDevCmsTable 1 }

```
PktcMtaDevCmsEntry ::= SEQUENCE {
    pktcMtaDevCmsIndex          Unsigned32,
    pktcMtaDevCmsFqdn          SnmpAdminString,
    pktcMtaDevCmsKerbRealmName SnmpAdminString,
    pktcMtaDevCmsMaxClockSkew
        Unsigned32,
    pktcMtaDevCmsSolicitedKeyTimeout Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyMaxTimeout Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyNomTimeout Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyMaxRetries Unsigned32,
    pktcMtaDevCmsIpsecCtrl      TruthValue,
    pktcMtaDevCmsStatus         RowStatus
}
```

pktcMtaDevCmsIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..128)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the CMS table index."

::= { pktcMtaDevCmsEntry 1 }

pktcMtaDevCmsFqdn OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the CMS FQDN. The MTA must prohibit the instantiation of any two rows with identical FQDNs. The MTA must also verify that any search and/or comparison operation

involving a CMS FQDN is case

insensitive. The MTA must resolve the CMS FQDN as required by the corresponding PacketCable Specifications."

REFERENCE

" PacketCable MTA Device Provisioning Specification;  
PacketCable Security Specification;  
PacketCable Network-Based Call Signaling Protocol  
Specification."

::= { pktcMtaDevCmsEntry 2 }

pktcMtaDevCmsKerbRealmName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object identifies the Kerberos realm name in uppercase characters associated with the CMS defined in this

conceptual row. The object value is a reference point to the corresponding Kerberos realm name in the realm table (pktcMtaDevRealmTable)."

::= { pktcMtaDevCmsEntry 3 }

pktcMtaDevCmsMaxClockSkew OBJECT-TYPE

SYNTAX Unsigned32 (1..1800)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object specifies the maximum allowable clock skew between the MTA and the CMS defined in this row."

DEFVAL { 300 }

::= { pktcMtaDevCmsEntry 4 }

pktcMtaDevCmsSolicitedKeyTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..30000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines a Kerberos Key Management timer on the MTA. It is the time period during which the MTA saves the nonce and Server Kerberos Principal Identifier to match an AP Request and its associated AP Reply response from the CMS. This timer only applies when the CMS initiated key management (with a Wake Up message or a Rekey message)."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 1000 }

::= { pktcMtaDevCmsEntry 5 }

-----

--

--

Unsolicited key updates are retransmitted according to an

-- exponential back-off mechanism using two timers and a maximum



-- retry counter for AS replies.  
 -- The initial retransmission timer value is the nominal timer  
 -- value (pktcMtaDevCmsUnsolicitedKeyNomTimeout). The  
 -- retransmissions occur with an exponentially increasing interval  
 -- that caps at the maximum timeout value  
 -- (pktcMtaDevCmsUnsolicitedKeyMaxTimeout).  
 -- Retransmissions stop when the maximum retry counter is reached  
 -- (pktcMtaDevCmsUnsolicitedMaxRetries).  
 -- For example, with values of 3 seconds for the nominal  
 -- timer, 20 seconds for the maximum timeout, and 5 retries max,  
 -- retransmission intervals will be 3 s, 6 s, 12 s,

-- 20 s, and 20 s; retransmissions then stop due to the  
 -- maximum number of retries reached.  
 --

=====

pktcMtaDevCmsUnsolicitedKeyMaxTimeout OBJECT-TYPE

SYNTAX Unsigned32 (1..600)

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the timeout value that only applies  
 to an MTA-initiated key management exchange. It is the  
 maximum timeout, and it may not be exceeded in the  
 exponential back-off algorithm."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 600 }

::= { pktcMtaDevCmsEntry 6 }

pktcMtaDevCmsUnsolicitedKeyNomTimeout OBJECT-TYPE

SYNTAX Unsigned32 (100..30000)

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the starting value of the timeout  
 for an MTA-initiated key management. It should account for  
 the average roundtrip time between the MTA and the CMS and  
 the processing time on the CMS."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 500 }

::= { pktcMtaDevCmsEntry 7 }

pktcMtaDevCmsUnsolicitedKeyMaxRetries

OBJECT-TYPE

SYNTAX Unsigned32 (0..1024)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the maximum number of retries before the MTA stops attempting to establish a Security Association with the CMS."

REFERENCE

" PacketCable Security Specification."

DEFVAL { 5 }

::= { pktcMtaDevCmsEntry 8 }

pktcMtaDevCmsIpsecCtrl OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies the MTA IPsec control flag. If the object value is 'true', the MTA must use Kerberos Key Management and IPsec to communicate with this CMS. If it is 'false', IPsec Signaling Security and Kerberos key management are disabled for this specific CMS."

DEFVAL { true }

::= { pktcMtaDevCmsEntry 9 }

pktcMtaDevCmsStatus OBJECT-TYPE

SYNTAX

RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object defines the row status associated with this particular CMS in the CMS table (pktcMtaDevCmsTable).

An entry in this table is not qualified for activation until the object instances of all corresponding columns have been initialized, either by default values or via explicit SET operations. Until all object instances in this row are initialized, the status value for this realm must be 'notReady(3)'.  
In particular, two columnar objects must be SET: the CMS FQDN (pktcMtaDevCmsFqdn) and the Kerberos realm name

(pktcMtaDevCmsKerbRealmName). Once these 2 objects have been set and the row status is SET to 'active(1)', the MTA MUST NOT allow any modification of these 2 object values.

The value of this object has no effect on whether other columnar objects in this row can be modified."

::= { pktcMtaDevCmsEntry 10 }

pktcMtaDevResetKrbTickets OBJECT-TYPE

SYNTAX BITS {  
    invalidateProvOnReboot (0),  
    invalidateAllCmsOnReboot (1)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object defines a Kerberos Ticket Control Mask that instructs the MTA to invalidate the specific Application

Server Kerberos ticket(s) that are stored locally in the MTA NVRAM (non-volatile or persistent memory).

If the MTA does not store Kerberos tickets in NVRAM, it MUST ignore setting of this object and MUST report a BITS value of zero when the object is read.

If the MTA supports Kerberos tickets storage in NVRAM, the object value is encoded as follows:

- Setting the invalidateProvOnReboot bit (bit 0) to 1 means that the MTA MUST invalidate

the Kerberos

Application Ticket(s) for the Provisioning Application at the next MTA reboot if secure SNMP provisioning mode is used. In non-secure provisioning modes, the MTA MUST return an 'inconsistentValue' in response to SNMP SET operations with a bit 0 set to 1.

- Setting the invalidateAllCmsOnReboot bit (bit 1) to 1 means that the MTA MUST invalidate the Kerberos Application Ticket(s) for all CMSEs currently assigned to the MTA endpoints.

If a value is written into an instance of pktcMtaDevResetKrbTickets, the agent MUST retain the supplied value across an MTA re-initialization or reboot."

REFERENCE

"PacketCable Security Specification."

```

DEFVAL { { } }
::= { pktcMtaDevSecurity 9 }

--
-- The following group, pktcMtaDevErrors, defines an OID
-- corresponding to error conditions encountered during the MTA
-- provisioning.
--

pktcMtaDevErrorsTooManyErrors
OBJECT-IDENTITY
STATUS current
DESCRIPTION
    "This object defines the OID corresponding to the error
    condition when too many errors are encountered in the
    MTA configuration file during provisioning."
    ::= { pktcMtaDevErrors 1 }

pktcMtaDevProvisioningEnrollment NOTIFICATION-TYPE
OBJECTS {
    sysDescr,
    pktcMtaDevSwCurrentVers,
    pktcMtaDevTypeIdentifier,
    ifPhysAddress,
    pktcMtaDevCorrelationId
}
STATUS current
DESCRIPTION
    " This INFORM notification is issued by the MTA to initiate
    the PacketCable provisioning process when the MTA SNMP
    enrollment mechanism is used.

    It contains the system description, the current software
    version, the MTA device type identifier, the MTA MAC
    address (obtained in the MTA ifTable in the ifPhysAddress
    object that corresponds to the ifIndex
    1), and a
    correlation ID."
    ::= { pktcMtaNotification 1 }

pktcMtaDevProvisioningStatus NOTIFICATION-TYPE
OBJECTS {
    ifPhysAddress,
    pktcMtaDevCorrelationId,
    pktcMtaDevProvisioningState
}

```

STATUS current

DESCRIPTION

" This INFORM notification may be issued by the MTA to confirm the completion of the PacketCable provisioning process, and to report its provisioning completion status.

It contains the MTA MAC address (obtained in the MTA ifTable in the ifPhysAddress object that corresponds to the ifIndex 1), a correlation ID and the MTA provisioning state as defined in pktcMtaDevProvisioningState."

::= { pktcMtaNotification 2 }

--

-- Compliance Statements

--

pktcMtaCompliances OBJECT IDENTIFIER ::= { pktcMtaConformance 1 }

pktcMtaGroups OBJECT IDENTIFIER ::= { pktcMtaConformance 2 }

pktcMtaBasicCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

" The compliance statement for MTA devices that implement PacketCable or IPCablecom requirements.

This compliance statement applies to MTA implementations that support PacketCable 1.0 or IPCablecom requirements, which are not IPv6-capable at the time of this

RFC publication."

MODULE -- Unconditionally mandatory groups for MTAs

MANDATORY-GROUPS {

pktcMtaGroup,

pktcMtaNotificationGroup

}

OBJECT pktcMtaDevDhcpServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevDnsServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

" Support for address types other than 'ipv4(1)' is not presently specified and therefore is not required. It may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp1

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp2

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns1

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns2

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in

future versions of this MIB module."

OBJECT pktcMtaDevTimeServer  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg  
SYNTAX PkctcMtaDevProvEncryptAlg  
DESCRIPTION

"An implementation is only required to support values of none(0) and des64Cbcmode(1). An IV of zero is used to encrypt in des64Cbcmode, and the length of pktcMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification. Other encryption types may be defined in future versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName  
SYNTAX LongUtf8String (SIZE (1..384))  
DESCRIPTION

"The Organization Name field in X.509 certificates can contain up to 64 UTF-8 encoded characters, as defined in RFCs 3280 and 4630. Therefore, compliant devices are only required to support Organization Name values of up to 64 UTF-8 encoded characters. Given that RFCs 3280 and 4630 define the UTF-8 encoding, compliant devices must support a maximum size of 384 octets for pktcMtaDevRealmOrgName. The calculation of 384 octets comes from the RFC 3629 UTF-8 encoding definition whereby the UTF-8 encoded characters are encoded as sequences of 1 to 6 octets, assuming that code points as high as 0x7fffffff might be used. Subsequent versions of Unicode and ISO 10646 have limited the upper bound to 0x10ffff.

Consequently, the current version of UTF-8, defined in RFC 3629, does not require more than four octets to encode a valid code point."

::= { pktcMtaCompliances 1 }

pktcMtaGroup OBJECT-GROUP  
OBJECTS {

pktcMtaDevResetNow,  
pktcMtaDevSerialNumber,  
pktcMtaDevSwCurrentVers,  
pktcMtaDevFQDN,  
pktcMtaDevEndPntCount,

pktcMtaDevEnabled,  
pktcMtaDevProvisioningCounter,  
pktcMtaDevErrorOid,  
pktcMtaDevErrorValue,  
pktcMtaDevErrorReason,  
pktcMtaDevTypeIdentifier,  
pktcMtaDevProvisioningState,  
pktcMtaDevHttpAccess,  
pktcMtaDevCertificate,  
pktcMtaDevCorrelationId,  
pktcMtaDevManufacturerCertificate,  
pktcMtaDevDhcpServerAddressType,  
pktcMtaDevDnsServerAddressType,  
pktcMtaDevTimeServerAddressType,  
pktcMtaDevProvConfigEncryptAlg,  
pktcMtaDevServerDhcp1,  
pktcMtaDevServerDhcp2,  
pktcMtaDevServerDns1,  
pktcMtaDevServerDns2,  
pktcMtaDevTimeServer,  
pktcMtaDevConfigFile,  
pktcMtaDevSnmpEntity,  
pktcMtaDevRealmPkinitGracePeriod,  
pktcMtaDevRealmTgsGracePeriod,  
pktcMtaDevRealmAvailSlot,  
pktcMtaDevRealmName,  
pktcMtaDevRealmOrgName,  
pktcMtaDevRealmUnsolicitedKeyMaxTimeout,  
pktcMtaDevRealmUnsolicitedKeyNomTimeout,  
pktcMtaDevRealmUnsolicitedKeyMaxRetries,  
pktcMtaDevRealmStatus,  
pktcMtaDevCmsAvailSlot,  
pktcMtaDevCmsFqdn,  
pktcMtaDevCmsKerbRealmName,  
pktcMtaDevCmsUnsolicitedKeyMaxTimeout,

pktcMtaDevCmsUnsolicitedKeyNomTimeout,  
pktcMtaDevCmsUnsolicitedKeyMaxRetries,  
pktcMtaDevCmsSolicitedKeyTimeout,  
pktcMtaDevCmsMaxClockSkew,



```

    pktcMtaDevCmsIpsecCtrl,
    pktcMtaDevCmsStatus,
    pktcMtaDevResetKrbTickets,
    pktcMtaDevProvUnsolicitedKeyMaxTimeout,
    pktcMtaDevProvUnsolicitedKeyNomTimeout,
    pktcMtaDevProvUnsolicitedKeyMaxRetries,
    pktcMtaDevProvKerbRealmName,
    pktcMtaDevProvSolicitedKeyTimeout,
    pktcMtaDevProvConfigHash,
    pktcMtaDevProvConfigKey,
    pktcMtaDevProvState,
    pktcMtaDevProvisioningTimer,
    pktcMtaDevTelephonyRootCertificate
}
STATUS    current
DESCRIPTION
    " A collection of objects for managing PacketCable or
    IPCablecom MTA implementations."
::= { pktcMtaGroups 1 }

```

```

pktcMtaNotificationGroup    NOTIFICATION-GROUP
NOTIFICATIONS {
    pktcMtaDevProvisioningStatus,
    pktcMtaDevProvisioningEnrollment
}
STATUS    current
DESCRIPTION
    " A collection of notifications dealing with the change of
    MTA provisioning status."
::= { pktcMtaGroups 2 }

```

```

pktcMtaBasicSmtaCompliance MODULE-COMPLIANCE
STATUS    current
DESCRIPTION
    " The compliance statement for S-MTA devices
    that implement PacketCable or IPCablecom requirements.

    This compliance statement applies to S-MTA implementations
    that support PacketCable or IPCablecom requirements,
    which are not IPv6-capable
    at the time of this
    RFC publication."

MODULE -- Unconditionally Mandatory Groups for S-MTA devices
MANDATORY-GROUPS {

```

```
pktcMtaGroup,  
pktcMtaNotificationGroup  
}
```

```
OBJECT pktcMtaDevDhcpServerAddressType  
SYNTAX InetAddressType { ipv4(1) }  
DESCRIPTION  
" Support for address types other than 'ipv4(1)'  
is not presently specified and therefore is not  
required. It may be defined in future versions of  
this MIB module."
```

```
OBJECT pktcMtaDevDnsServerAddressType  
SYNTAX InetAddressType { ipv4(1) }  
DESCRIPTION  
" Support for address types other than 'ipv4(1)'  
is not presently specified and therefore is not  
required. It may be defined in future versions of  
this MIB module."
```

```
OBJECT pktcMtaDevTimeServerAddressType  
SYNTAX InetAddressType { ipv4(1)  
}  
DESCRIPTION  
" Support for address types other than 'ipv4(1)'  
is not presently specified and therefore is not  
required. It may be defined in future versions of  
this MIB module."
```

```
OBJECT pktcMtaDevServerDhcp1  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4  
addresses. Other address types support may be defined in  
future versions of this MIB module."
```

```
OBJECT pktcMtaDevServerDhcp2  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4  
addresses. Other address types support may be defined in  
future versions of this MIB module."
```

```
OBJECT pktcMtaDevServerDns1  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required
```

to support IPv4

addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevServerDns2

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevTimeServer

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg

SYNTAX PkctlMtaDevProvEncryptAlg

DESCRIPTION

"An implementation is only required to support values of none(0) and des64Cbcmode(1).

An IV of zero is used to encrypt in des64Cbcmode, and

the length of pkctlMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification.

Other encryption types may be defined in future versions of this MIB module."

OBJECT pkctlMtaDevRealmOrgName

SYNTAX LongUtf8String (SIZE (1..384))

DESCRIPTION

"The Organization Name field in X.509 certificates can contain up to 64 UTF-8 encoded characters, as defined in RFCs 3280 and 4630. Therefore, compliant devices are only required to support Organization Name values of up to 64 UTF-8 encoded characters. Given that RFCs 3280 and 4630 define the UTF-8 encoding, compliant devices must support a maximum size of 384 octets for pkctlMtaDevRealmOrgName. The calculation of 384 octets comes from the RFC 3629 UTF-8 encoding definition whereby the UTF-8 encoded

characters

are encoded as sequences of 1 to 6 octets,

assuming that code points as high as 0x7fffffff might be used. Subsequent versions of Unicode and ISO 10646 have limited the upper bound to 0x10ffff. Consequently, the current version of UTF-8, defined in RFC 3629 does not require more than four octets to encode a valid code point."

```
MODULE DOCS-CABLE-DEVICE-MIB
MANDATORY-GROUPS {
```

```
    docsDevSoftwareGroupV2
}
```

```
MODULE DOCS-IETF-BPI2-MIB
MANDATORY-GROUPS {
    docsBpi2CodeDownloadGroup
}
```

```
::= { pkteMtaCompliances 2 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB
```

No license file was found, but licenses were detected in source scan.

```
PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
    MODULE-IDENTITY,
    OBJECT-TYPE,
    Integer32,
    Unsigned32,
    mib-2
        FROM SNMPv2-SMI          -- [RFC2578]
    InetAddressType,
    InetAddress,
    InetPortNumber
        FROM INET-ADDRESS-MIB    -- [RFC4001]
    TEXTUAL-CONVENTION,
    RowStatus,
    TruthValue
        FROM SNMPv2-TC          -- [RFC2579]
```

OBJECT-GROUP,  
MODULE-COMPLIANCE  
FROM SNMPv2-CONF -- [RFC2580]  
SnmpAdminString  
FROM SNMP-FRAMEWORK-MIB -- [RFC3411]  
ifIndex  
FROM IF-MIB -- [RFC2863]  
Dscp  
FROM DIFFSERV-DSCP-TC; -- [RFC3289]

pktnetSigMib MODULE-IDENTITY

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DESCRIPTION

"This MIB module supplies the basic management objects for the PacketCable and IPCablecom Signaling protocols. This version of the MIB includes

common signaling and Network Call Signaling

(NCS)-related signaling objects.

Copyright (C) The IETF Trust (2008). This version of this MIB module is part of RFC 5098; see the RFC itself for full legal notices."

REVISION "200712180000Z"  
DESCRIPTION  
"Initial version, published as RFC 5098."

::= { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION  
DISPLAY-HINT "d-1"  
STATUS current  
DESCRIPTION  
"This TEXTUAL-CONVENTION represents power levels that are normally expressed in dBm. Units are in tenths of a dBm; for example, -13.5 dBm will be represented as -135."  
SYNTAX Integer32

PktcCodecType ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION  
" This TEXTUAL-CONVENTION defines various types of codecs

that MAY be supported. The description for each enumeration is listed below:

| Enumeration | Description                               |
|-------------|-------------------------------------------|
| other       | a defined codec not in the enumeration    |
| unknown     | a codec not defined by the PacketCable    |
|             | Codec Specification                       |
| g729        | ITU-T Recommendation G.729                |
| reserved    | for future use                            |
| g729E       | ITU-T Recommendation G.729E               |
| pcm         | Pulse Code Modulation u-law (PCMU)        |
| g726at32    | ITU-T Recommendation G.726-32 (32 kbit/s) |
| g728        | ITU-T Recommendation G.728                |
| pcma        | Pulse Code Modulation a-law (PCMA)        |
| g726at16    | ITU-T Recommendation G.726-16 (16 kbit/s) |
| g726at24    | ITU-T Recommendation G.726-24 (24 kbit/s) |
| g726at40    | ITU-T Recommendation G.726-40 (40 kbit/s) |

ilbc IETF Internet low-bit rate codec  
bv16 Broadcom BroadVoice16

The list of codecs is consistent with the IETF Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video Codecs Specification [PKT-SP-CODEC]. The literal codec name for each codec is listed below:

| Codec    | Literal Codec Name |
|----------|--------------------|
| g729     | G729               |
| g729E    | G729E              |
| pcmu     | PCMU               |
| g726at32 | G726-32            |
| g728     | G728               |
| pcma     | PCMA               |
| g726at16 | G726-16            |
| g726at24 | G726-24            |
| g726at40 | G726-40            |
| ilbc     | iLBC               |
| bv16     | BV16               |

The literal codec name is the second column of the table with codec RTP Map Parameters. The Literal Codec Name Column contains the codec name used in the local connection options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to identify the codec in the Call Management System (CMS) Provisioning Specification. The RTP Map Parameter column of the Table contains the string used in the media attribute line (a=) of the session description protocol (SDP) parameters in NCS messages."

```
SYNTAX INTEGER {  
    other (1),  
    unknown (2),  
    g729 (3),  
    reserved (4),  
    g729E (5),  
    pcmu (6),  
    g726at32 (7),  
    g728 (8),  
    pcma (9),  
    g726at16 (10),  
    g726at24 (11),
```

```
    g726at40 (12),
    ilbc (13),
    bv16 (14)
}
```

PktcRingCadence ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This object provides an encoding scheme for ring

cadences, including repeatability

characteristics. All

fields in this object MUST be encoded in network-byte order.

The first three higher-order octets are reserved. The octets that follow are used to encode a 'bit-string', with each bit corresponding to 50 milliseconds. A bit value of '1' indicates the presence of a ring-tone, and a bit value of '0' indicates the absence of a ring-tone, for that duration (50 ms) (Note: A minimum number of octets required to encode the bit-string MUST be used).

The first two of the reserved octets MUST indicate the length of the encoded cadence (in bits) and MUST range between 1 and 264. (Note: The length in bits MUST also be consistent with the number of octets that encode the cadence). The MTA MUST ignore any unused bits in the last octet, but MUST reflect the value as provided on subsequent SNMP GETs.

The

third of the reserved octets indicates 'repeatability' and MUST be either 0x80 or 0x00 -- the former value indicating 'non-repeatability', and the latter indicating 'repeatability'.

The MTA MUST reject attempts to set a value that violates any of the above requirements."

SYNTAX OCTET STRING (SIZE(4..36))

PktcSigType ::= TEXTUAL-CONVENTION

STATUS current



#### DESCRIPTION

" This object lists the various types of signaling that may be supported:

other(1) - set when signaling other than NCS is used  
ncs(2) - Network Call Signaling is a derivation of MGCP (Media Gateway Control Protocol) defined for IPCablecom/PacketCable MTAs."

#### SYNTAX INTEGER {

other(1),  
ncs(2)

}

#### DtmfCode::=TEXTUAL-CONVENTION

STATUS current

#### DESCRIPTION

"This TEXTUAL-CONVENTION represents the Dual-Tone Multi-Frequency (DTMF) Character used to indicate the start or end of the digit transition sequence used for caller id or Visual Message Waiting Indicator (VMWI).

Note: The DTMF code '\*' is indicated using 'dtmfcodeStar', and the DTMF code '#' is indicated using ' dtmfcodeHash'."

#### SYNTAX INTEGER {

dtmfcode0(0),  
dtmfcode1(1),  
dtmfcode2(2),  
dtmfcode3(3),  
dtmfcode4(4),  
dtmfcode5(5),  
dtmfcode6(6),  
dtmfcode7(7),  
dtmfcode8(8),  
dtmfcode9(9),  
dtmfcodeStar(10),  
dtmfcodeHash(11),  
dtmfcodeA(12),  
dtmfcodeB(13),  
dtmfcodeC(14),  
dtmfcodeD(15)

}

#### PkctSubscriberSideSigProtocol::=TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TEXTUAL-CONVENTION represents the Signaling protocol being used for purposes such as caller id or VMWI.

A value of fsk(1) indicates Frequency Shift Keying (FSK).

A value of dtmf(2) indicates Dual-Tone Multi-Frequency (DTMF)."

SYNTAX INTEGER {  
    fsk(1),  
    dtmf(2)  
}

pkcSigMibObjects OBJECT IDENTIFIER ::= { pkcIetfSigMib 1 }

pkcSigDevObjects OBJECT IDENTIFIER ::=

{ pkcSigMibObjects 1 }

pkcSigEndPntConfigObjects OBJECT IDENTIFIER ::=

{ pkcSigMibObjects 2 }

--

-- The codec table (pkcSigDevCodecTable) defines all combinations  
-- of codecs supported by the Multimedia Terminal Adapter (MTA).

--

pkcSigDevCodecTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigDevCodecEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the MTA-supported codec types. An MTA MUST populate this table with all possible combinations of codecs it supports for simultaneous operation. For example, an MTA with two endpoints may be designed with a particular Digital Signal Processing (DSP) and memory architecture that allows it to support the following fixed combinations of codecs for simultaneous operation:

| Codec Type | Maximum Number of Simultaneous Codecs |
|------------|---------------------------------------|
| PCMA       | 3                                     |
| PCMA       | 2                                     |
| PCMU       | 1                                     |
| PCMA       | 1                                     |

|      |   |
|------|---|
| PCMU | 2 |
| PCMU | 3 |
| PCMA | 1 |
| G729 | 1 |
| G729 | 2 |
| PCMU | 1 |
| G729 | 1 |

Based on this example, the entries in the codec table would be:

| pkcSigDev<br>CodecComboIndex | pkcSigDev<br>CodecType | pkcSigDev<br>CodecMax |
|------------------------------|------------------------|-----------------------|
| 1                            | pcma                   | 3                     |
| 2                            | pcma                   | 2                     |
| 2                            | pcmu                   | 1                     |
| 3                            | pcma                   | 1                     |
| 3                            | pcmu                   | 2                     |
| 4                            | pcmu                   | 3                     |
| 5                            | pcma                   | 1                     |
| 5                            | g729                   | 1                     |
| 6                            | g729                   | 2                     |
| 7                            | pcmu                   | 1                     |
| 7                            | g729                   | 1                     |

An operator querying this table is able to determine all possible codec combinations the MTA is capable of simultaneously supporting.

This table MUST NOT include non-voice codecs."

```
::=
{ pkcSigDevObjects 1 }
```

```
pkcSigDevCodecEntry OBJECT-TYPE
SYNTAX PkcSigDevCodecEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Each entry represents the maximum number of active
```

connections with a particular codec the MTA is capable of supporting. Each row is indexed by a composite key consisting of a number enumerating the particular codec combination and the codec type."

```
INDEX { pktcSigDevCodecComboIndex, pktcSigDevCodecType }  
::= { pktcSigDevCodecTable 1 }
```

```
PktcSigDevCodecEntry ::= SEQUENCE {  
  pktcSigDevCodecComboIndex  Unsigned32,  
  pktcSigDevCodecType        PktcCodecType,  
  pktcSigDevCodecMax         Unsigned32  
}
```

```
pktcSigDevCodecComboIndex OBJECT-TYPE  
  SYNTAX      Unsigned32 (1..255)  
  MAX-ACCESS  not-accessible  
  STATUS      current  
  DESCRIPTION  
    " The index value that enumerates a particular codec  
      combination in the pktcSigDevCodecTable."  
  ::= {  
    { pktcSigDevCodecEntry 1 }  
  }
```

```
pktcSigDevCodecType OBJECT-TYPE  
  SYNTAX      PktcCodecType  
  MAX-ACCESS  not-accessible  
  STATUS      current
```

```
DESCRIPTION  
  " A codec type supported by this MTA."  
  ::= { pktcSigDevCodecEntry 2 }
```

```
pktcSigDevCodecMax OBJECT-TYPE  
  SYNTAX      Unsigned32(1..255)  
  MAX-ACCESS  read-only  
  STATUS      current  
  DESCRIPTION  
    " The maximum number of simultaneous sessions of a  
      particular codec that the MTA can support."  
  ::= { pktcSigDevCodecEntry 3 }
```

```
--  
-- These are the common signaling-related definitions that affect  
-- the entire MTA device.  
--
```

pkcSigDevEchoCancellation OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of echo cancellation. The MTA MUST set this MIB object to a value of true(1) if it is capable of echo cancellation, and a value of false(2) if not."

::= { pkcSigDevObjects 2 }

pkcSigDevSilenceSuppression OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object specifies if the device is capable of silence suppression (as a result of Voice Activity Detection). The MTA MUST set this MIB object to a value of true(1) if it is capable of silence suppression, and a value of false(2) if not."

::= { pkcSigDevObjects 3 }

pkcSigDevCidSigProtocol OBJECT-TYPE

SYNTAX PkcSubscriberSideSigProtocol

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object is used to configure the subscriber-line protocol used for signaling on-hook caller id information.

Different countries define different caller id signaling protocols to support caller identification.

Setting this object at a value fsk(1) sets the subscriber line protocol to be Frequency Shift Keying (FSK).

Setting this object at a value dtmf(2) sets the subscriber line protocol to be Dual-Tone Multi-Frequency (DTMF).

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { fsk }

::= { pktcSigDevObjects 4 }

pktcSigDevR0Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 0 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 5 }

pktcSigDevR1Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 1 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 6 }

pktcSigDevR2Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 2 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 7 }

pktcSigDevR3Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 3 (a user-defined

field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 8 }

pktcSigDevR4Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 4 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 5 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence 6 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 11 }

pktcSigDevR7Cadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current  
DESCRIPTION  
" This object specifies ring cadence 7 (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 12 }

pktcSigDevRgCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rg (a user-defined field).

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 13 }

pktcSigDevRsCadence OBJECT-TYPE

SYNTAX PktcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies ring cadence rs (a user-defined field). The MTA MUST reject any attempt to make this object repeatable.

The value of this MIB object MUST NOT persist across MTA reboots."

::= { pktcSigDevObjects 14 }

pktcSigDefCallSigDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"

The default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for call

signaling.



The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp OBJECT-TYPE

SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object contains the default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for media stream packets. The MTA MUST NOT update this object with the value supplied by the CMS in the NCS messages (if present). Any currently active connections are not affected by updates to this object. When the value of this object is updated by SNMP, the MTA MUST use the new value as a default starting only from new connections.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { 0 }

::= { pktcSigDevObjects 16 }

--

-- pktcSigCapabilityTable - This table defines the valid signaling

-- types supported by this MTA.

--

pktcSigCapabilityTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the signaling types supported by this MTA."

::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry OBJECT-TYPE

SYNTAX PktcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Entries in pktcMtaDevSigCapabilityTable - list of supported signaling types, versions, and vendor extensions

for this MTA. Each entry in the list provides for one signaling type and version combination. If the device supports multiple versions of the same signaling type, it

will require multiple entries."

INDEX { pktcSigCapabilityIndex }

::= { pktcSigCapabilityTable 1 }

```
PktcSigCapabilityEntry ::= SEQUENCE {
    pktcSigCapabilityIndex      Unsigned32,
    pktcSigCapabilityType      PktcSigType,
    pktcSigCapabilityVersion    SnmpAdminString,
    pktcSigCapabilityVendorExt  SnmpAdminString
}
```

pktcSigCapabilityIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The index value that uniquely identifies an entry in the pktcSigCapabilityTable."

::= { pktcSigCapabilityEntry 1 }

pktcSigCapabilityType OBJECT-TYPE

SYNTAX PktcSigType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object identifies the type of signaling used. This value has to be associated with a single signaling version."

::= { pktcSigCapabilityEntry

2 }

pktcSigCapabilityVersion OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" Provides the version of the signaling type - reference pktcSigCapabilityType. Examples would be 1.0 or 2.33 etc."

::= { pktcSigCapabilityEntry 3 }

pktcSigCapabilityVendorExt OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" The vendor extension allows vendors to provide a list of

additional capabilities.

The syntax for this MIB object in ABNF ([RFC5234]) is specified to be zero or more occurrences of vendor extensions, as follows:

```
pkcSigCapabilityVendorExt = *(vendor-extension)
vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE
ext = DQUOTE %x58 DQUOTE
symbol = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)
alphanum = 1*6(ALPHA/DIGIT)
```

"

::= { pkcSigCapabilityEntry 4 }

pkcSigDefNcsReceiveUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the MTA User Datagram Protocol (UDP) receive port that is being used for NCS call signaling. This object should only be changed by the configuration file.

Unless changed via configuration, this MIB object MUST reflect a value of '2427'."

REFERENCE

"PacketCable NCS Specification"

::= { pkcSigDevObjects 18 }

pkcSigPowerRingFrequency OBJECT-TYPE

SYNTAX INTEGER {

```
f20Hz(1),
f25Hz(2),
f33Point33Hz(3),
f50Hz(4),
f15Hz(5),
f16Hz(6),
f22Hz(7),
f23Hz(8),
f45Hz(9)
```

```
}  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION
```

" This object must only be provided via the configuration file during the provisioning process. The power ring

frequency is the frequency at which the sinusoidal voltage must travel down the twisted pair to make terminal equipment ring. Different countries define different electrical characteristics to make terminal equipment ring.

The f20Hz setting corresponds to a power ring frequency of 20 Hertz. The f25Hz setting corresponds to a power ring frequency of 25 Hertz. The f33Point33Hz setting corresponds to a power ring frequency of 33.33 Hertz. The f50Hz setting corresponds to a power ring frequency of 50 Hertz. The f15Hz setting corresponds to a power ring frequency of 15 Hertz. The f16Hz setting corresponds to a power ring frequency of 16 Hertz. The f22Hz setting corresponds to a power ring frequency of 22 Hertz. The f23Hz setting corresponds to a power ring frequency of 23 Hertz. The f45Hz setting corresponds to a power ring frequency of 45 Hertz."

#### REFERENCE

"ETSI-EN-300-001"  
::= { pktcSigDevObjects 19 }

```
pktcSigPulseSignalTable OBJECT-TYPE  
SYNTAX SEQUENCE OF PktcSigPulseSignalEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION
```

" The Pulse signal table defines the pulse signal operation. There are nine types of international pulse signals, with each signal having a set of provisionable parameters. The values of the MIB objects in this table take effect only if these parameters are not defined via signaling, in which case, the latter determines the values of the parameters. The MIB objects in this table do not persist across MTA reboots."

#### REFERENCE

"ETSI-TS-101-909-4 Specification"  
::= { pktcSigDevObjects

pkcSigPulseSignalEntry OBJECT-TYPE

SYNTAX PkcSigPulseSignalEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This object defines the set of parameters associated with each particular value of pkcSigPulseSignalType. Each entry in the pkcSigPulseSignalTable is indexed by the pkcSigPulseSignalType object.

The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pkcSigPulseSignalType }

::= { pkcSigPulseSignalTable 1 }

PkcSigPulseSignalEntry ::= SEQUENCE {

pkcSigPulseSignalType INTEGER,  
 pkcSigPulseSignalFrequency INTEGER,  
 pkcSigPulseSignalDbLevel TenthdBm,  
 pkcSigPulseSignalDuration Unsigned32,  
 pkcSigPulseSignalPulseInterval Unsigned32,  
 pkcSigPulseSignalRepeatCount Unsigned32

}

pkcSigPulseSignalType OBJECT-TYPE

SYNTAX INTEGER

{  
 initialRing(1),  
 pulseLoopClose(2),  
 pulseLoopOpen(3),  
 enableMeterPulse(4),  
 meterPulseBurst(5),  
 pulseNoBattery(6),  
 pulseNormalPolarity(7),  
 pulseReducedBattery(8),  
 pulseReversePolarity(9)  
 }

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"There are nine types of international pulse signals. These signals are defined as follows:

initial ring  
 pulse loop close  
 pulse loop open

enable meter pulse  
meter pulse burst  
pulse no battery  
pulse normal polarity  
pulse reduced battery  
pulse reverse polarity"

REFERENCE

"ETSI-EN-300-324-1 Specification"

::= { pktcSigPulseSignalEntry 1 }

pktcSigPulseSignalFrequency OBJECT-TYPE

SYNTAX INTEGER {

twentyfive(1),

twelvethousand(2),

sixteenthousand(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object is only applicable to the initialRing, enableMeterPulse, and meterPulseBurst signal types. This object identifies the frequency of the generated signal. The following table defines the default values for this object depending on signal type:

| pktcSigPulseSignalType | Default |
|------------------------|---------|
| initialRing            | 25      |
| enableMeterPulse       | 16000   |
| meterPulseBurst        | 16000   |

The value of twentyfive MUST only be used for the initialRing signal type. The values of twelvethousand and sixteenthousand MUST only be used for enableMeterPulse and meterPulseBurst signal types. An attempt to set this object while the value of pktcSigPulseSignalType is not initialRing, enableMeterPulse, or meterPulseBurst will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-001 Specification"

::= { pktcSigPulseSignalEntry 2 }

pktcSigPulseSignalDbLevel OBJECT-TYPE

SYNTAX TenthdBm (-350..0)

UNITS "1/10 of a dBm"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object is only applicable to the enableMeterPulse and meterPulseBurst signal types. This is the decibel level for each frequency at which tones could be generated at the a and b terminals (TE connection point). An attempt to set this object while the value of pktcSigPulseSignalType is not enableMeterPulse or meterPulseBurst will result in an 'inconsistentValue' error."

REFERENCE

"ETSI-EN-300-001 Specification"

DEFVAL { -135 }

::={pktcSigPulseSignalEntry 3 }

pktcSigPulseSignalDuration OBJECT-TYPE

SYNTAX Unsigned32

(0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the pulse duration for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object depending on the signal type:

| pktcSigPulseSignaltype | Default (ms) | Increment (ms) |
|------------------------|--------------|----------------|
| initialRing            | 200          | 50             |
| pulseLoopClose         | 200          | 10             |
| pulseLoopOpen          | 200          | 10             |
| enableMeterPulse       | 150          | 10             |
| meterPulseBurst        | 150          | 10             |
| pulseNoBattery         | 200          | 10             |
| pulseNormalPolarity    | 200          | 10             |
| pulseReducedBattery    | 200          | 10             |
| pulseReversePolarity   | 200          | 10             |

An attempt to set this object to a value that does not

fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

#### REFERENCE

"ETSI-EN-300-324-1 Specification"  
::= { pktcSigPulseSignalEntry 4 }

#### pktcSigPulseSignalPulseInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..5000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

" This object specifies the repeat interval, or the period, for each signal type. In addition, the MTA must accept the values in the incremental steps specific for each signal type. The following table defines the default values and the incremental steps for this object, depending on the signal type:

| pktcSigPulseSignaltype | Default (ms) | Increment (ms) |
|------------------------|--------------|----------------|
| initialRing            | 200          | 50             |
| pulseLoopClose         | 1000         | 10             |
| pulseLoopOpen          | 1000         | 10             |

|                      |      |    |
|----------------------|------|----|
| enableMeterPulse     | 1000 | 10 |
| meterPulseBurst      | 1000 | 10 |
| pulseNoBattery       | 1000 | 10 |
| pulseNormalPolarity  | 1000 | 10 |
| pulseReducedBattery  | 1000 | 10 |
| pulseReversePolarity | 1000 | 10 |

An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

#### REFERENCE

"ETSI-EN-300-324-1 Specification"  
::= { pktcSigPulseSignalEntry 5 }

#### pktcSigPulseSignalRepeatCount OBJECT-TYPE

SYNTAX Unsigned32 (1..50)

MAX-ACCESS read-write

STATUS current



## DESCRIPTION

" This object specifies how many times to repeat a pulse. This object is not used by the enableMeterPulse signal type, and in that case, the value is irrelevant. The following table defines the default values and the valid ranges for this object, depending on the signal type:

| pkcSigPulseSignaltype | Default     | Range          |
|-----------------------|-------------|----------------|
| initialRing           | 1           | 1-5            |
| pulseLoopClose        | 1           | 1-50           |
| pulseLoopOpen         | 1           | 1-50           |
| enableMeterPulse      | (any value) | (but not used) |
| meterPulseBurst       | 1           | 1-50           |
| pulseNoBattery        | 1           | 1-50           |
| pulseNormalPolarity   | 1           | 1-50           |
| pulseReducedBattery   | 1           | 1-50           |
| pulseReversePolarity  | 1           | 1-50           |

An attempt to set this object to a value that does not fall within the range for the specific signal type will result in an 'inconsistentValue' error."  
::={ pkcSigPulseSignalEntry 6 }

pkcSigDevCidMode OBJECT-TYPE

```
SYNTAX INTEGER {
    duringRingingETS(1),
    dtAsETS(2),
    rpAsETS(3),

    lrAsETS(4),
    lrETS(5)
}
```

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

" For on-hook caller id, pkcSigDevCidMode selects the method for representing and signaling caller identification. For the duringRingingETS method, the Frequency Shift Keying (FSK) or the Dual-Tone Multi-Frequency (DTMF) containing the caller identification information is sent between the first and second ring pattern.

For the dtAsETS,rpAsETS, lrAsETS and lrETS methods, the FSK or DTMF containing the caller id

information is sent before the first ring pattern.

For the dtAsETS method, the FSK or DTMF is sent after the Dual Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
DEFVAL { rpAsETS }  
 ::= {pktcSigDevObjects 21 }
```

pktcSigDevCidAfterRing OBJECT-TYPE

SYNTAX Unsigned32 (0|50..2000)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of first ringing pattern and the start of the transmission of the FSK or DTMF containing the caller id information. It is only used when pktcSigDevCidMode is set to a value of 'duringRingingETS'.

The following table defines the default values for this MIB object, depending on the signal type

(pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | 550 ms               |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | any value (not used) |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not duringringingETS will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 550 }

::= {pktcSigDevObjects 22 }

pktcSigDevCidAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the FSK or DTMF containing the caller id information. This object is only used when pktcSigDevCidMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | 50 ms                |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | 50 ms                |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of

pktcSigDevCidMode is not 'dtAsETS' or 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 23 }

pktcSigDevCidAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the caller id information. This MIB object is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'. The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default              |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | 650 ms               |
| lrAsETS                    | any value (not used) |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID OBJECT-TYPE

SYNTAX Unsigned32 (0|50..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

" This object specifies the delay between the end of the complete transmission of the FSK or DTMF containing the caller

id information and the start of the first ring

pattern. It is only used when pktcSigDevCidMode is set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or 'lrETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | 250 ms               |
| rpAsETS                    | 250 ms               |
| lrAsETS                    | 250 ms               |
| lrETS                      | 250 ms               |

An attempt to set this object while the value of pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS', 'lrAsETS', or 'lrETS' will result in an 'inconsistent value' error.

The value of this MIB object MUST NOT persist across MTA reboots."

## REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS). This object is only used when pktcSigDevCidMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode     Default value

duringringingETS            any value (not used)  
dtAsETS                    any value (not used)  
rpAsETS                    any value (not used)  
lrAsETS                    250 ms  
lrETS  
                          any value (not used)

An attempt to set this object while the value of  
pktcSigDevCidMode is not lrAsETS will result in an  
'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA  
reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode   OBJECT-TYPE

SYNTAX   INTEGER {  
    dtAsETS(1),  
    rpAsETS(2),  
    lrAsETS(3),  
    osi(4),  
    lrETS(5)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" For visual message waiting indicator (VMWI),  
pktcSigDevVmwiMode selects the alerting signal method. For  
the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods,  
the FSK containing the VMWI information is sent after an  
alerting signal.

For the dtAsETS method,  
the FSK, or DTMF  
is sent after the Dual Tone Alert Signal. For the rpAsETS  
method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first,

then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the OSI method, the FSK or DTMF is sent after the Open Switching Interval.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
DEFVAL { rpAsETS }  
 ::= { pktcSigDevObjects 27 }
```

pktcSigDevVmwiAfterDTAS OBJECT-TYPE

SYNTAX Unsigned32 (0|45..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Dual Tone Alert Signal (DT-AS) and the start of the transmission of the FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'dtAsETS' or 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value        |
|-----------------------------|----------------------|
| dtAsETS                     | 50 ms                |
| rpAsETS                     | any value (not used) |
| lrAsETS                     | 50 ms                |
| lrETS                       | any value (not used) |

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 50 }

::= {pktcSigDevObjects 28  
}

pktcSigDevVmwiAfterRPAS OBJECT-TYPE

SYNTAX Unsigned32 (0|500..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Ring Pulse Alert Signal (RP-AS) and the start of the transmission of the FSK or DTMF containing the VMWI information.

This object is only used when pktcSigDevVmwiMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevVmwiMode), and MUST be followed:

| Value of pktcSigDevVmwiMode | Default value        |
|-----------------------------|----------------------|
| dtAsETS                     | any value (not used) |
| rpAsETS                     | 650 ms               |
| lrAsETS                     | any value (not used) |
| lrETS                       | any value (not used) |

An attempt to set this object while the value of pktcSigDevVmwiMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 650 }

::= {pktcSigDevObjects 29 }



pkcSigDevVmwiDTASAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|50..655)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the delay between the end of the Line Reversal and the start of the Dual Tone Alert Signal (DT-AS) for VMWI information. This object is only used when pkcSigDevVmwiMode is set to a value of 'lrAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pkcSigDevVmwiMode), and MUST be followed:

| Value of pkcSigDevVmwiMode | Default value        |
|----------------------------|----------------------|
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | 250 ms               |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pkcSigDevVmwiMode is not 'lrAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification"

DEFVAL { 250 }

::= {pkcSigDevObjects 30 }

pkcSigDevRingCadenceTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigDevRingCadenceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Cadence rings are defined by the telco governing body for each country. The MTA must be able to support various ranges of cadence patterns and cadence periods. The

MTA will be able to support country-specific provisioning of the cadence and idle period. Each cadence pattern will be assigned a unique value ranging from 0-127 (inclusive) corresponding to the value of x, where x is the value sent in the cadence ringing (cr) signal cr(x), requested per the appropriate NCS message, and defined in the E package. The MTA will derive the cadence periods from the ring cadence table entry, as provisioned by the customer. The MTA is allowed to provide appropriate default values for each of the ring cadences. This table only needs to be supported when the MTA implements the E package."

#### REFERENCE

"ETSI-TS-101-909-4 Specification"

::= { pktcSigDevObjects 31 }

pktcSigDevRingCadenceEntry OBJECT-TYPE

SYNTAX PktcSigDevRingCadenceEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" Each entry in this row corresponds to a ring cadence that is being supported by the device. The conceptual rows MUST NOT persist across MTA reboots."

INDEX { pktcSigDevRingCadenceIndex }

::= { pktcSigDevRingCadenceTable 1 }

PktcSigDevRingCadenceEntry ::= SEQUENCE {  
    pktcSigDevRingCadenceIndex Unsigned32,  
    pktcSigDevRingCadence PktcRingCadence  
}

pktcSigDevRingCadenceIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..127)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" A unique value ranging from 0 to 127 that corresponds to the value sent by the LE based on country-specific cadences, one row per cadence cycle. In any given system implementation for a particular country, it is anticipated that a small number of ring cadences will be in use. Thus, this table most likely will not be populated to its full size."

```
::= { pktcSigDevRingCadenceEntry
1 }
```

pktcSigDevRingCadence OBJECT-TYPE

SYNTAX PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is the Ring Cadence."

```
::= { pktcSigDevRingCadenceEntry 2 }
```

pktcSigDevToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkctSigDevToneEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" The Tone Table defines the composition of tones and various tone operations.

The definition of the tones callWaiting1 through callWaiting4 in this table MUST only contain the audible tone itself; the delay between tones or the value of the tone repeat count are not applicable for the call waiting tones.

The delay between tones or the repeat count is controlled by the objects pktcSigEndPntConfigCallWaitingDelay and pktcSigEndPntConfigCallWaitingMaxRep. If the pktcSigDevToneType is set to either of the values callWaiting1, callWaiting2, callWaiting3, or callWaiting4, then the value of the pktcSigDevToneWholeToneRepeatCount object indicates that the particular frequency group is applicable, as a repeatable part of the tone, based on the value of the MIB object pktcSigDevToneWholeToneRepeatCount.

The MTA MUST make sure that, after the provisioning cycle, the table is fully populated (i.e., for each possible index, an entry MUST be defined) using reasonable defaults for each row that was not defined by the provisioning information delivered via MTA Configuration.

The frequency composition of each tone is defined by the pktcSigDevMultiFreqToneTable. For each tone type defined in pktcSigDevToneTable, the MTA MUST populate at least one entry in the pktcSigDevMultiFreqToneTable.

For each particular value of pktcSigDevToneType, the pktcSigDevToneTable table can define non-repeating and repeating groups of the frequencies defined by the pktcSigDevMultiFreqToneTable, such that each group is represented by the set of the consecutive rows (frequency group) in the pktcSigDevMultiFreqToneTable.

Objects in this table do not persist across MTA reboots. For tones with multiple frequencies refer to the MIB table pktcSigDevMultiFreqToneTable."

#### REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4 Specification."

::= { pktcSigDevObjects 32 }

pktcSigDevToneEntry OBJECT-TYPE

SYNTAX PkctSigDevToneEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

" The different tone types that can be provisioned based on country-specific needs.

Each entry contains the tone generation parameters for a specific frequency group of the specific Tone Type.

The different parameters can be provisioned via MTA configuration based on country specific needs.

An MTA MUST populate all entries of this table for each tone type."

INDEX { pktcSigDevToneType, pktcSigDevToneFreqGroup }

::= { pktcSigDevToneTable 1 }

PkctSigDevToneEntry ::= SEQUENCE {

pktcSigDevToneType INTEGER,

pktcSigDevToneFreqGroup Unsigned32,

pktcSigDevToneFreqCounter Unsigned32,

pktcSigDevToneWholeToneRepeatCount Unsigned32,

pktcSigDevToneSteady TruthValue

}

pkcSigDevToneType OBJECT-TYPE

SYNTAX INTEGER {

busy(1),  
confirmation(2),  
dial(3),  
messageWaiting(4),  
offHookWarning(5),  
ringBack(6),  
reOrder(7),  
stutterdial(8),  
callWaiting1(9),

callWaiting2(10),  
callWaiting3(11),  
callWaiting4(12),  
alertingSignal(13),  
specialDial(14),  
specialInfo(15),  
release(16),  
congestion(17),  
userDefined1(18),  
userDefined2(19),  
userDefined3(20),  
userDefined4(21)

}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique value that will correspond to the different tone types. These tones can be provisioned based on country-specific needs. This object defines the type of tone being accessed.

The alertingSignal, specialDial, specialInfo, release,

congestion, userDefined1, userDefined2, userDefined3, and userDefined4 tone types are used in the E line package."

::= { pkcSigDevToneEntry 1 }

pkcSigDevToneFreqGroup OBJECT-TYPE

SYNTAX Unsigned32(1..4)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This MIB object represents the Tone Sequence reference of a multi-sequence tone."

::={ pktcSigDevToneEntry 2 }

pktcSigDevToneFreqCounter OBJECT-TYPE

SYNTAX Unsigned32(1..8)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the number of consecutive multi-frequency tones for the particular tone type in the multi-frequency table (pktcSigDevMultiFreqToneTable).

Such a sequence of the consecutive multi-frequency tones forms the tone group for the particular tone type in the pktcSigDevToneTable."

::={ pktcSigDevToneEntry 3 }

pktcSigDevToneWholeToneRepeatCount OBJECT-TYPE

SYNTAX Unsigned32 (0..5000)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is the repeat count, which signifies how many times to repeat the entire on-off cadence sequence. Setting this object may result in a cadence duration longer or shorter than the overall signal duration specified by the time out (TO) object for a particular signal. If the repeat count results in a longer tone duration than the signal duration specified by the TO, the tone duration defined by the TO object for a particular signal always represents the overall signal duration for a tone. In this case, the tone duration repeat count will not be fully exercised, and the desired tone duration will be truncated per the TO setting. If the repeat count results in a shorter tone duration than the signal duration specified by the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case,

the TO represents a time not to be exceeded for the signal.

It is recommended to ensure proper telephony signaling so that the TO duration setting should always be longer than the

desired repeat count-time duration."

::={ pktcSigDevToneEntry 4 }

pktcSigDevToneSteady OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the steady tone status. A value of 'true(1)' indicates that the steady tone is applied, and a value of 'false(2)' indicates otherwise.

Devices must play out the on-off cadence sequence for the number of times indicated by the MIB object 'pktcSigDevToneWholeToneRepeatCount' prior to applying the last tone steadily, indefinitely. If the MIB table 'pktcSigDevToneTable' contains multiple rows with this Object set to a value of 'true(1)', the steady tone is applied to the last repeating frequency

group of the tone.

Setting this MIB object may result in a tone duration that is longer or shorter than the overall signal duration specified by the time out (TO) MIB object for a particular signal. If the repeat count results in a longer tone duration than the signal duration specified by the TO, the tone duration defined by the TO object for a particular signal always represents the overall signal duration for a tone. In this case, the tone duration repeat count will not be fully exercised, and the desired tone duration will be truncated per the TO setting. If the repeat count results in a shorter tone duration than the signal duration specified by the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case, the TO represents a time not to be exceeded for the signal.

It is recommended to ensure proper telephony signaling that The TO duration setting should always be longer than the desired repeat count-time duration, plus the desired maximum steady tone period."

::={ pktcSigDevToneEntry 5 }

pktcSigDevMultiFreqToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PktcSigDevMultiFreqToneEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

" This MIB table defines the characteristics of tones with multiple frequencies. The constraints imposed on the tones by the MIB table pktcSigDevToneTable need to be considered for MIB objects in this table as well.

The MTA MUST populate the corresponding row(s) of the pktcSigDevMultiFreqToneTable for each tone defined in the pktcSigDevToneTable.

The contents of the table may be provisioned via MTA configuration."

## REFERENCE

"PacketCable NCS Specification, ETSI-TS-101-909-4 Specification."

::= { pktcSigDevObjects 33 }

## pktcSigDevMultiFreqToneEntry OBJECT-TYPE

SYNTAX PkctcSigDevMultiFreqToneEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

" The different tone types with multiple frequencies that can be provisioned based on country-specific needs."

INDEX {pktcSigDevToneType, pktcSigDevToneNumber}

::= { pktcSigDevMultiFreqToneTable 1 }

PkctcSigDevMultiFreqToneEntry ::= SEQUENCE {

    pktcSigDevToneNumber          Unsigned32,  
    pktcSigDevToneFirstFreqValue  Unsigned32,  
    pktcSigDevToneSecondFreqValue Unsigned32,  
    pktcSigDevToneThirdFreqValue  Unsigned32,  
    pktcSigDevToneFourthFreqValue Unsigned32,  
    pktcSigDevToneFreqMode        INTEGER,  
    pktcSigDevToneFreqAmpModePrtg Unsigned32,  
    pktcSigDevToneDbLevel          TenthdBm,  
    pktcSigDevToneFreqOnDuration   Unsigned32,  
    pktcSigDevToneFreqOffDuration  Unsigned32,  
    pktcSigDevToneFreqRepeatCount  Unsigned32

}

pktcSigDevToneNumber OBJECT-TYPE

SYNTAX Unsigned32(1..8)



MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"This MIB object represents the frequency reference  
of a multi-frequency tone."  
::={ pktcSigDevMultiFreqToneEntry 1 }

pktcSigDevToneFirstFreqValue OBJECT-TYPE  
SYNTAX Unsigned32(0..4000)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the value of the first  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."  
::={ pktcSigDevMultiFreqToneEntry 2 }

pktcSigDevToneSecondFreqValue  
OBJECT-TYPE  
SYNTAX Unsigned32(0..4000)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the value of the second  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."  
::={ pktcSigDevMultiFreqToneEntry 3 }

pktcSigDevToneThirdFreqValue OBJECT-TYPE  
SYNTAX Unsigned32(0..4000)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the value of the third  
frequency of a tone type. A value of zero implies  
absence of the referenced frequency."  
::={ pktcSigDevMultiFreqToneEntry 4 }

pktcSigDevToneFourthFreqValue OBJECT-TYPE  
SYNTAX Unsigned32(0..4000)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the value of the fourth  
frequency of a tone type. A

value of zero implies

absence of the referenced frequency."

::={ pktcSigDevMultiFreqToneEntry 5}

pktcSigDevToneFreqMode OBJECT-TYPE

SYNTAX INTEGER {

firstModulatedBySecond(1),

summation(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object provides directive on the modulation or summation of the frequencies involved in the tone.

It is to be noted that while summation can be done without any constraint on the number of frequencies, the modulation (amplitude) holds good only when there are two frequencies (first and second).

Thus:

- If the mode is set to a value of 'firstModulatedBySecond(1)', the first frequency MUST be modulated by the second, and the remaining frequencies (third and fourth) ignored. The percentage

of amplitude modulation to be applied

is defined by the MIB object

pktcSigDevToneFreqAmpModePrtg.

- If the mode is set to a value of 'summation(2)', all the frequencies MUST be summed without any modulation.

"

::={ pktcSigDevMultiFreqToneEntry 6}

pktcSigDevToneFreqAmpModePrtg OBJECT-TYPE

SYNTAX Unsigned32(0..100)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object represents the percentage of amplitude modulation applied to the second frequency

when the MIB object pktcSigDevToneFreqMode is set to a value of 'firstModulatedBySecond (1)'.

If the MIB object pktcSigDevToneFreqMode is set to value of 'summation (2)', then this MIB object MUST be ignored."

::={ pktcSigDevMultiFreqToneEntry 7}

pktcSigDevToneDbLevel OBJECT-TYPE

SYNTAX TenthdBm (-250..-110)

UNITS

"1/10 of a dBm"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This MIB object contains the decibel level for each analog signal (tone) that is locally generated (versus in-band supervisory tones) and sourced to the a-b terminals (TE connection point). Each tone in itself may consist of multiple frequencies, as defined by the MIB table pktcSigDevMultiFreqToneTable.

This MIB object reflects the desired level at the Telco (POTS) a-b (T/R) terminals, including the effect of any MTA receiver gain (loss). This is required so that locally generated tones are consistent with remotely generated in-band tones at the a-b terminals, consistent with user expectations.

This MIB object must be set for each tone.

When tones are formed by combining multi-frequencies, the level of each frequency

shall be set so as to result

in the tone level specified in this object at the a-b (T/R) terminals.

The wide range of levels for this Object is required to provide signal-generator levels across the wide range of gains (losses) -- but does not imply the entire range is to be achievable given the range of gains (losses) in the MTA."

DEFVAL { -120 }

::={ pktcSigDevMultiFreqToneEntry 8}

pktcSigDevToneFreqOnDuration OBJECT-TYPE

SYNTAX Unsigned32(0..5000)  
UNITS "milliseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the duration for which the  
frequency reference corresponding to the tone type  
is turned on."  
::={ pktcSigDevMultiFreqToneEntry 9}

pktcSigDevToneFreqOffDuration OBJECT-TYPE

SYNTAX Unsigned32(0..5000)  
UNITS "milliseconds"  
MAX-ACCESS  
read-only  
STATUS current  
DESCRIPTION  
"This MIB object represents the duration for which the  
  
frequency reference corresponding to the tone type  
is turned off."  
::={ pktcSigDevMultiFreqToneEntry 10}

pktcSigDevToneFreqRepeatCount OBJECT-TYPE

SYNTAX Unsigned32(0..5000)  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This MIB object indicates the number of times  
to repeat the cadence cycle represented by the  
on/off durations (refer to the MIB objects  
pktcSigDevToneFreqOnDuration and  
pktcSigDevToneFreqOffDuration).

Setting this object may result in a tone duration that is  
longer or shorter than the overall signal duration  
specified by the time out (TO) object for the  
corresponding tone type. If the value of this MIB  
Object indicates a longer duration than that  
specified by the TO, the latter overrules  
the former,  
and the desired tone duration will be truncated according  
to the TO.

However, if the repeat count results in a shorter  
tone duration than the signal duration specified by

the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case, the TO represents a time not to be exceeded for the signal. It is recommended, to ensure proper telephony signaling, that the TO duration setting should always be longer than the desired repeat count-time duration. A value of zero means the tone sequence is to be played once but not repeated."

```
::={ pktcSigDevMultiFreqToneEntry 11 }
```

pktcSigDevCidDelayAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (300..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the delay between the end of the

Line Reversal and the start of the FSK or DTMF signal.

This MIB object is used only when pktcSigDevCidMode is set to a value of 'lrETS'. This timing has a range of 300 to 800 ms.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | any value (not used) |
| lrAsETS                    | any value (not used) |
| lrETS                      | 400                  |

An attempt to set this object while the value of pktcSigDevCidMode is not set to a value of 'lrETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

```
DEFVAL { 400 }
```

```
::={ pktcSigDevObjects 34 }
```

pkcSigDevCidDtmfStartCode OBJECT-TYPE

SYNTAX DtmfCode

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object identifies optional start codes used when the MIB object pkcSigDevCidSigProtocol is set to a value of 'dtmf(2)'.

Different countries define different caller id signaling codes to support caller identification. When Dual-Tone Multi-Frequency (DTMF) is used, the caller id digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The start code for calling number delivery may be DTMF

'A' or 'D'. The start code for redirecting a number may be DTMF 'D'. The DTMF code 'B' may be sent by the network as a start code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA

reboots."

REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeA }

::= { pkcSigDevObjects 35 }

pkcSigDevCidDtmfEndCode OBJECT-TYPE

SYNTAX DtmfCode

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object identifies optional end codes used when the pkcSigDevCidSigProtocol is set to a value of 'dtmf(2)'.

Different countries define different caller id signaling protocols to support caller

identification. When

Dual-Tone Multi-Frequency (DTMF) is used, the caller id digits are preceded by a 'start code' digit, followed by the digit transmission sequence <S1>...<Sn> (where Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an end code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeC }

::= { pktcSigDevObjects 36 }

#### pktcSigDevVmwiSigProtocol OBJECT-TYPE

SYNTAX PkctSubscriberSideSigProtocol

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object identifies the subscriber line protocol used for signaling the information on Visual Message Waiting Indicator (VMWI). Different countries define different VMWI signaling protocols to support VMWI service.

Frequency shift keying (FSK) is most commonly used.

DTMF is an alternative.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL { fsk }

::= { pktcSigDevObjects 37 }

#### pktcSigDevVmwiDelayAfterLR OBJECT-TYPE

SYNTAX Unsigned32 (0|300..800)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"This object specifies the delay between the end of the Line Reversal and the start of the FSK or DTMF signal. This object is only used when `pkcSigDevVmwiMode` is set to a value of 'lrETS'. This timing has a range of 300 to 800 ms.

The following table defines the default values for this MIB object, depending on the signal type (`pkcSigDevVmwiMode`), and MUST be followed:

| Value of <code>pkcSigDevVmwiMode</code> | Default value        |
|-----------------------------------------|----------------------|
| <code>duringringingETS</code>           | any value (not used) |
| <code>dtAsETS</code>                    | any value (not used) |
| <code>rpAsETS</code>                    | any value (not used) |
| <code>lrAsETS</code>                    | any value (not used) |
| <code>lrETS</code>                      | 400                  |

An attempt to set this object while the value of `pkcSigDevVmwiMode` is not 'lrETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

DEFVAL {400}  
 ::= {pkcSigDevObjects 38 }

`pkcSigDevVmwiDtmfStartCode`  
OBJECT-TYPE

SYNTAX DtmfCode  
MAX-ACCESS read-write  
STATUS current

## DESCRIPTION

"This object identifies optional start codes used when

the `pkcSigDevVmwiSigProtocol` is set to a value of 'dtmf(2)'. Different countries define different On Hook Data Transmission Protocol signaling codes to support VMWI.

When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI digits are preceded by a 'start code' digit, followed by the digit transmission sequence `<S1>...<Sn>` (where



Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The start code for redirecting VMWI may be DTMF 'D'  
The DTMF code 'B' may be sent by the network as a start code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

#### REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeA }

::= { pktcSigDevObjects 39 }

pktcSigDevVmwiDtmfEndCode OBJECT-TYPE

SYNTAX DtmfCode

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object identifies an optional end code used when the pktcSigDevVmwiSigProtocol is set to a value of 'dtmf(2)'. Different countries define different on-hook Data Transmission Protocol signaling codes to support VMWI.

When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI digits are preceded by a 'start code' digit, followed by the digit transmission sequence

<S1>...<Sn> (where

Sx represents the digits 0-9), and terminated by the 'end code' digit.

For example,

<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an end code for the transfer of information values, through which special events can be indicated to the user. In some countries, the '\*' or '#' may be used instead of 'A',

'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 specification"

DEFVAL { dtmfcodeC }

::= { pktcSigDevObjects 40 }

pktcSigDevrpAsDtsDuration OBJECT-TYPE

SYNTAX Unsigned32 (0|200..500)

UNITS "Milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

" This object specifies the duration of the rpASDTS ring

pulse prior to the start of the transmission of the

FSK or DTMF containing the caller id information. It is only used when pktcSigDevCidMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

| Value of pktcSigDevCidMode | Default value        |
|----------------------------|----------------------|
| duringringingETS           | any value (not used) |
| dtAsETS                    | any value (not used) |
| rpAsETS                    | 250                  |
| lrAsETS                    | any value (not used) |
| lrETS                      | any value (not used) |

An attempt to set this object while the value of pktcSigDevCidMode is not 'rpAsETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."

REFERENCE

"ETSI-EN-300-659-1 Specification and Belgacom BGC\_D\_48\_9811\_30\_09\_EDOC version 3.3"

DEFVAL { 250 }

::= { pktcSigDevObjects 41 }

```

--
-- The Endpoint Config Table is used to define attributes that
-- are specific to connection EndPoints.
--

pktcSigEndPntConfigTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcSigEndPntConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " This table describes the information pertaining to each
        endpoint of the MTA. All entries in this table represent
        the provisioned endpoints provisioned with the information
        required by the MTA to maintain the NCS protocol
        communication with the CMS. Each endpoint can be assigned
        to its own CMS. If the specific endpoint does not have
        the corresponding CMS information in this table, the
        endpoint is considered as not
        provisioned with voice
        services. Objects in this table do not persist across
        MTA reboots."
    ::= { pktcSigEndPntConfigObjects 1 }

```

```

pktcSigEndPntConfigEntry OBJECT-TYPE
    SYNTAX      PktcSigEndPntConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Each entry in the pktcSigEndPntConfigTable represents
        required signaling parameters for the specific endpoint
        provisioned with voice services. The conceptual rows MUST
        NOT persist across MTA reboots."
    INDEX { ifIndex }
    ::= { pktcSigEndPntConfigTable 1 }

```

```

PktcSigEndPntConfigEntry ::= SEQUENCE {
    pktcSigEndPntConfigCallAgentId      SnmpAdminString,
    pktcSigEndPntConfigCallAgentUdpPort  InetPortNumber,
    pktcSigEndPntConfigPartialDialTO     Unsigned32,
    pktcSigEndPntConfigCriticalDialTO     Unsigned32,
    pktcSigEndPntConfigBusyToneTO        Unsigned32,
    pktcSigEndPntConfigDialToneTO        Unsigned32,
    pktcSigEndPntConfigMessageWaitingTO  Unsigned32,
    pktcSigEndPntConfigOffHookWarnToneTO Unsigned32,
    pktcSigEndPntConfigRingingTO         Unsigned32,

```

pkteSigEndPntConfigRingBackTO Unsigned32,  
 pkteSigEndPntConfigReorderToneTO Unsigned32,  
 pkteSigEndPntConfigStutterDialToneTO Unsigned32,

pkteSigEndPntConfigTSMMax Unsigned32,  
 pkteSigEndPntConfigMax1 Unsigned32,  
 pkteSigEndPntConfigMax2 Unsigned32,  
 pkteSigEndPntConfigMax1QEnable TruthValue,  
 pkteSigEndPntConfigMax2QEnable TruthValue,  
 pkteSigEndPntConfigMWD Unsigned32,  
 pkteSigEndPntConfigTdinit Unsigned32,  
 pkteSigEndPntConfigTdmin Unsigned32,  
 pkteSigEndPntConfigTdmax Unsigned32,  
 pkteSigEndPntConfigRtoMax Unsigned32,  
 pkteSigEndPntConfigRtoInit  
   Unsigned32,  
 pkteSigEndPntConfigLongDurationKeepAlive Unsigned32,  
 pkteSigEndPntConfigThist Unsigned32,  
 pkteSigEndPntConfigStatus RowStatus,  
 pkteSigEndPntConfigCallWaitingMaxRep Unsigned32,  
 pkteSigEndPntConfigCallWaitingDelay Unsigned32,  
 pkteSigEndPntStatusCallIpAddressType InetAddressType,  
 pkteSigEndPntStatusCallIpAddress InetAddress,  
 pkteSigEndPntStatusError INTEGER,  
 pkteSigEndPntConfigMinHookFlash Unsigned32,  
 pkteSigEndPntConfigMaxHookFlash Unsigned32,  
 pkteSigEndPntConfigPulseDialInterdigitTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMinMakeTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMaxMakeTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMinBreakTime Unsigned32,  
 pkteSigEndPntConfigPulseDialMaxBreakTime Unsigned32  
 }

pkteSigEndPntConfigCallAgentId OBJECT-TYPE

SYNTAX SnmpAdminString(SIZE  
 (3..255))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains a string indicating the call agent name (e.g., ca@example.com). The call agent name, after the character '@', MUST be a fully qualified domain name (FQDN) and MUST have a corresponding pkteMtaDevCmsFqdn entry in the pkteMtaDevCmsTable. The object pkteMtaDevCmsFqdn is defined in the PacketCable MIBMTA Specification. For each particular endpoint, the MTA MUST

use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended not to change this object's value using SNMP during normal operation."

::= { pktcSigEndPntConfigEntry 1 }

pktcSigEndPntConfigCallAgentUdpPort OBJECT-TYPE

SYNTAX InetPortNumber (1025..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the current value of the User Datagram Protocol (UDP) receive port on which the call agent will receive NCS from the endpoint.

For each particular endpoint, the MTA MUST use the current value of this object to communicate with the corresponding CMS. The MTA MUST update this object with the value of the 'Notified Entity' parameter of the NCS message. If the Notified Entity parameter does not contain a CallAgent port, the MTA MUST update this object with the default value of 2727. Because of the high importance of this object to the ability of the MTA to maintain reliable NCS communication with the CMS, it is highly recommended

not

to change this object's value using SNMP during normal operation."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 2727 }

::= { pktcSigEndPntConfigEntry 2 }

pktcSigEndPntConfigPartialDialTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the value of the partial dial time out.

The time out (TO) elements are intended to limit the time a

tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 3 }

pktcSigEndPntConfigCriticalDialTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS

"seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the value of the critical dial time out.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 4 }

::= { pktcSigEndPntConfigEntry 4 }

pktcSigEndPntConfigBusyToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for busy tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is

set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 30 }

::= { pktcSigEndPntConfigEntry 5 }

pktcSigEndPntConfigDialToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for dial tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present).

If

the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 6 }

pktcSigEndPntConfigMessageWaitingTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for message waiting indicator. The MTA MUST NOT update this object with the value

provided in the NCS message (if

present). If the value of the object is modified by the

SNMP Manager application, the MTA MUST use the new value

as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 7 }

pktcSigEndPntConfigOffHookWarnToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for the off-hook warning tone. The MTA MUST

NOT update this object

with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Manager

application, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 0 }

::= { pktcSigEndPntConfigEntry 8 }

pktcSigEndPntConfigRingingTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for ringing. The MTA



MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 180 }

::= { pktcSigEndPntConfigEntry 9 }

pktcSigEndPntConfigRingBackTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the default time out value for ring

back. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message.

The time out (TO) elements are intended to limit the time

a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 180 }

::= { pktcSigEndPntConfigEntry 10 }

pktcSigEndPntConfigReorderToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object contains the default time out value for reorder tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

#### REFERENCE

"PacketCable NCS Specification"

DEFVAL { 30 }

::= { pktcSigEndPntConfigEntry 11 }

pktcSigEndPntConfigStutterDialToneTO OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

" This object contains the default time out value for stutter dial tone. The MTA MUST NOT update this object with the value provided in the NCS message (if present). If the value of the object is modified by the SNMP Management Station, the MTA MUST use the new value as a default only for a new signal requested by the NCS message. The time out (TO) elements are intended to limit the time a tone or frequency is generated. When this MIB object is set to a value of '0', the MTA MUST NOT generate the

corresponding frequency or tone, regardless of the definitions pertaining to frequency, tone duration, or cadence."

#### REFERENCE

"PacketCable NCS Specification"

DEFVAL { 16 }

::= { pktcSigEndPntConfigEntry 12 }

pktcSigEndPntConfigTSMMax OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object is used as part of an NCS retransmission algorithm. Prior to any retransmission, the MTA must check to make sure that the time elapsed since the sending of the initial datagram does not exceed the value specified by this MIB object. If more than Tsmax time has elapsed, then the retransmissions MUST cease.

Refer to the MIB object pkcSigEndPntConfigThist for information on when the endpoint becomes disconnected."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 20 }

::= { pkcSigEndPntConfigEntry 13 }

pkcSigEndPntConfigMax1 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the suspicious error threshold for signaling messages. The pkcSigEndPntConfigMax1 object indicates the retransmission threshold at which the MTA MAY actively query the domain name server (DNS) in order to detect the possible change of call agent interfaces."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 5 }

::= { pkcSigEndPntConfigEntry 14 }

pkcSigEndPntConfigMax2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the disconnect error threshold for signaling messages. The pkcSigEndPntConfigMax2 object indicates the retransmission threshold at which the MTA SHOULD contact the DNS one more time to see if any other interfaces to the call agent have become available."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 7 }

::= { pktcSigEndPntConfigEntry 15 }

pktcSigEndPntConfigMax1QEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object enables/disables the Max1 domain name server (DNS)

query operation when the pktcSigEndPntConfigMax1 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pktcSigEndPntConfigEntry 16 }

pktcSigEndPntConfigMax2QEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object enables/disables the Max2 domain name server (DNS) query operation when the pktcSigEndPntConfigMax2 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pktcSigEndPntConfigEntry 17 }

pktcSigEndPntConfigMWD OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Maximum Waiting Delay (MWD) contains the maximum number of seconds an MTA waits, after powering on, before initiating

the restart procedure with the call agent."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 600 }

::= { pktcSigEndPntConfigEntry 18 }

pktcSigEndPntConfigTdinit OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object represents the 'disconnected' initial waiting delay within the context of an MTA's 'disconnected procedure'. The 'disconnected procedure' is initiated when an endpoint becomes 'disconnected' while attempting to communicate with a call agent.

The 'disconnected timer' associated with the 'disconnected Procedure' is initialized to a random value, uniformly distributed between zero and the value contained in this MIB object.

For more information on the usage of this timer, please refer to the PacketCable NCS Specification."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 15 }

::= { pktcSigEndPntConfigEntry 19 }

pktcSigEndPntConfigTadmin OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This MIB object represents the 'disconnected' minimum waiting delay within the context of an MTA's 'disconnected procedure', specifically when local user activity is detected.

The 'disconnected procedure' is initiated when an endpoint becomes 'disconnected' while attempting to communicate with a call agent.

For more information on the usage of this timer, please refer to the PacketCable NCS Specification."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 15 }

::= { pktcSigEndPntConfigEntry 20 }

pktcSigEndPntConfigTdmax OBJECT-TYPE

SYNTAX Unsigned32

UNITS

"seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the maximum number of seconds the MTA waits, after a disconnect, before initiating the disconnected procedure with the call agent.

"

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 600 }

::= { pktcSigEndPntConfigEntry 21 }

pktcSigEndPntConfigRtoMax OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object specifies the maximum number of seconds the MTA waits for a response to an NCS message before initiating a retransmission."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 4 }

::= { pktcSigEndPntConfigEntry 22 }

pktcSigEndPntConfigRtoInit OBJECT-TYPE

SYNTAX Unsigned32

UNITS "milliseconds"

MAX-ACCESS read-create

STATUS current

DESCRIPTION

" This object contains the initial number of seconds for the retransmission timer."

REFERENCE

"PacketCable NCS Specification"

DEFVAL { 200 }

::= { pktcSigEndPntConfigEntry 23 }

pktcSigEndPntConfigLongDurationKeepAlive OBJECT-TYPE

SYNTAX Unsigned32

UNITS "minutes"

MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
" Specifies a time out value, in minutes, for sending long  
duration call notification messages."

REFERENCE  
"PacketCable NCS Specification"  
DEFVAL { 60 }  
::= { pktcSigEndPntConfigEntry 24 }

pktcSigEndPntConfigThist OBJECT-TYPE  
SYNTAX Unsigned32  
UNITS "seconds"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
" Time out period, in seconds, before no response is declared."  
REFERENCE  
"PacketCable NCS Specification"  
DEFVAL { 30 }  
::= { pktcSigEndPntConfigEntry 25 }

pktcSigEndPntConfigStatus OBJECT-TYPE  
SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
" This object contains the Row Status associated with the  
pktcSigEndPntConfigTable. There are no restrictions or  
dependencies amidst the columnar objects before this  
row can be activated or for modifications of the  
columnar objects when this object is set to a  
value of 'active(1)."  
::= { pktcSigEndPntConfigEntry 26 }

pktcSigEndPntConfigCallWaitingMaxRep OBJECT-TYPE  
SYNTAX Unsigned32 (0..10)  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
" This object contains the default value of the maximum  
number of repetitions of the Call Waiting tone that the  
MTA will play from a single CMS request. The MTA MUST NOT  
update this object with the information provided in the  
NCS message (if present). If the value of the object is

modified by the SNMP  
Manager application, the MTA MUST use  
the new value as a default only for a new signal  
requested by the NCS message."  
DEFVAL { 1 }  
::= { pktcSigEndPntConfigEntry 27 }

pktcSigEndPntConfigCallWaitingDelay OBJECT-TYPE  
SYNTAX Unsigned32 (1..100)

UNITS "seconds"  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
" This object contains the delay between repetitions of the  
Call Waiting tone that the MTA will play from a single CMS  
request."  
DEFVAL { 10 }  
::= { pktcSigEndPntConfigEntry 28 }

pktcSigEndPntStatusCallIpAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the type of Internet address contained  
in the MIB object 'pktcSigEndPntStatusCallIpAddress'.

Since pktcSigEndPntStatusCallIpAddress is expected to  
contain an IP address, a value of dns(16)  
is disallowed."

::= { pktcSigEndPntConfigEntry 29 }

pktcSigEndPntStatusCallIpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This MIB object contains the chosen IP address of the CMS  
currently being used for the corresponding endpoint.

The device determines the IP address by using DNS to  
resolve the IP address of the CMS from the FQDN stored in  
the MIB object 'pktcSigEndPntConfigCallAgentId'. The  
processes are outlined in the PacketCable NCS and Security



specifications, and MUST be followed by the MTA.

The IP address type contained in this MIB object is indicated by pkcSigEndPntStatusCallIpAddressType."

REFERENCE

"PacketCable NCS Specification;  
PacketCable Security specification, [PKT-SP-SEC]."

::= { pkcSigEndPntConfigEntry 30 }

pkcSigEndPntStatusError OBJECT-TYPE

SYNTAX INTEGER {

operational

(1),

noSecurityAssociation (2),

disconnected (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This object contains the error status for this interface.

The operational status indicates that all operations necessary to put the line in service have occurred, and the CMS has acknowledged the Restart In Progress (RSIP) message successfully. If pkcMtaDevCmsIpsecCtrl is enabled for the associated call agent, the noSecurityAssociation status indicates that no Security Association (SA) yet exists for this endpoint. If pkcMtaDevCmsIpsecCtrl is disabled for the associated call agent, the noSecurityAssociation status is not applicable and should not be used by the MTA. The disconnected status indicates one of the following two:

If pkcMtaDevCmsIpsecCtrl is disabled, then no security association

is involved with this endpoint. The NCS

signaling software is in process of establishing the NCS signaling link via an RSIP exchange.

Otherwise, when pkcMtaDevCmsIpsecCtrl is enabled, security Association has been established, and the NCS signaling software is in process of establishing the NCS signaling link via an RSIP exchange."

::= { pkcSigEndPntConfigEntry 31 }

pkcSigEndPntConfigMinHookFlash OBJECT-TYPE

SYNTAX Unsigned32 (20..1550)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the minimum time a line needs to be on-hook for a valid hook flash. The value of this object MUST be greater than the value of pktcSigEndPntConfigPulseDialMaxBreakTime. The value of pktcSigEndPntConfigMinHookFlash MUST be less than pktcSigEndPntConfigMaxHookFlash. This object MUST only be set via the

MTA configuration during the provisioning process.

Furthermore, given the possibility for the 'pulse dial' and 'hook flash' to overlap, the value of this object MUST be greater than the value contained by the MIB Object 'pktcSigEndPntConfigPulseDialMaxMakeTime'."

DEFVAL { 300 }

::= { pktcSigEndPntConfigEntry 32 }

pktcSigEndPntConfigMaxHookFlash OBJECT-TYPE

SYNTAX Unsigned32 (20..1550)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the maximum time a line needs to be on-hook for a valid hook flash. The value of pktcSigEndPntConfigMaxHookFlash MUST be greater than pktcSigEndPntConfigMinHookFlash. This object MUST only be set via the MTA configuration during the provisioning process."

DEFVAL { 800 }

::= { pktcSigEndPntConfigEntry 33 }

pktcSigEndPntConfigPulseDialInterdigitTime

OBJECT-TYPE

SYNTAX Unsigned32 (100..1500)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the pulse dial inter-digit time out. This object MUST only be set via the MTA configuration during the provisioning process."

DEFVAL { 100 }

::= { pktcSigEndPntConfigEntry 34 }

pktcSigEndPntConfigPulseDialMinMakeTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the minimum make pulse width for the dial pulse.  
The value of pktcSigEndPntConfigPulseDialMinMakeTime MUST  
be less than pktcSigEndPntConfigPulseDialMaxMakeTime. This  
object MUST only be set via the MTA configuration during  
the provisioning process."

DEFVAL { 25 }

::= { pktcSigEndPntConfigEntry 35 }

pktcSigEndPntConfigPulseDialMaxMakeTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the maximum make pulse width for the dial pulse.

The value of pktcSigEndPntConfigPulseDialMaxMakeTime MUST  
be greater than pktcSigEndPntConfigPulseDialMinMakeTime.

This object MUST only be provided via the configuration  
file during the provisioning process.

Furthermore, given the possibility for the 'pulse dial'  
and 'hook flash' to overlap, the value of this object MUST  
be less than the value contained by the MIB object  
pktcSigEndPntConfigMinHookFlash."

DEFVAL { 55 }

::= { pktcSigEndPntConfigEntry 36 }

pktcSigEndPntConfigPulseDialMinBreakTime OBJECT-TYPE

SYNTAX Unsigned32 (20..200)

UNITS "Milliseconds"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

" This is the minimum break pulse width  
for the dial pulse.

The value of pktcSigEndPntConfigPulseDialMinBreakTime MUST  
be less than pktcSigEndPntConfigPulseDialMaxBreakTime.

This object must only be provided via the configuration

```

        file during the provisioning process."
    DEFVAL { 45 }
    ::= { pktcSigEndPntConfigEntry 37 }

pktcSigEndPntConfigPulseDialMaxBreakTime OBJECT-TYPE
    SYNTAX      Unsigned32 (20..200)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This is the maximum break pulse width for the dial pulse.
          The value of pktcSigEndPntConfigPulseDialMaxBreakTime MUST
          be greater than pktcSigEndPntConfigPulseDialMinBreakTime.
          This object MUST only be provided via the configuration
          file during the provisioning process."
    DEFVAL { 75 }
    ::= { pktcSigEndPntConfigEntry 38 }

--
-- notification group is for future extension.
--
pktcSigNotification OBJECT IDENTIFIER ::= {
    pktcIetfSigMib 0 }
pktcSigConformance OBJECT IDENTIFIER ::= { pktcIetfSigMib 2 }
pktcSigCompliances OBJECT IDENTIFIER ::= { pktcSigConformance 1 }
pktcSigGroups      OBJECT IDENTIFIER ::= { pktcSigConformance 2 }

--

-- compliance statements
--

pktcSigBasicCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        " The compliance statement for MTAs that implement
          NCS signaling."

MODULE -- pktcIetfSigMib

---
-- Unconditionally mandatory groups for all MTAs
---

MANDATORY-GROUPS {
    pktcSigDeviceGroup,

```

```

    pktcSigEndpointGroup
}
---
-- Conditionally mandatory groups for MTAs
---

GROUP pktcInternationalGroup
DESCRIPTION
    " This group is mandatory only for MTAs implementing
    international telephony features."

GROUP pktcLLinePackageGroup
DESCRIPTION
    " This group is mandatory only for MTAs implementing the L
    line package."

GROUP pktcELinePackageGroup
DESCRIPTION
    " This group is mandatory only
for MTAs implementing the E
    Line Package."
::={ pktcSigCompliances 1 }

pktcSigDeviceGroup OBJECT-GROUP
OBJECTS {
    pktcSigDevCodecMax,
    pktcSigDevEchoCancellation,
    pktcSigDevSilenceSuppression,
    pktcSigDevR0Cadence,
    pktcSigDevR1Cadence,
    pktcSigDevR2Cadence,
    pktcSigDevR3Cadence,

    pktcSigDevR4Cadence,
    pktcSigDevR5Cadence,
    pktcSigDevR6Cadence,
    pktcSigDevR7Cadence,
    pktcSigDevRgCadence,
    pktcSigDevRsCadence,
    pktcSigDefCallSigDscp,
    pktcSigDefMediaStreamDscp,
    pktcSigDevVmwiMode,
    pktcSigCapabilityType,
    pktcSigCapabilityVersion,
    pktcSigCapabilityVendorExt,
    pktcSigDefNcsReceiveUdpPort

```

```
}
STATUS current
DESCRIPTION
    "Group of MIB objects containing signaling configuration
    information that is applicable per-device."
::= { pktcSigGroups 1 }
```

pktcSigEndpointGroup OBJECT-GROUP

```
OBJECTS {
    pktcSigEndPntConfigCallAgentId,
    pktcSigEndPntConfigCallAgentUdpPort,

    pktcSigEndPntConfigPartialDialTO,
    pktcSigEndPntConfigCriticalDialTO,
    pktcSigEndPntConfigBusyToneTO,
    pktcSigEndPntConfigDialToneTO,
    pktcSigEndPntConfigMessageWaitingTO,
    pktcSigEndPntConfigOffHookWarnToneTO,
    pktcSigEndPntConfigRingingTO,
    pktcSigEndPntConfigRingBackTO,
    pktcSigEndPntConfigReorderToneTO,
    pktcSigEndPntConfigStutterDialToneTO,
    pktcSigEndPntConfigTSMMax,
    pktcSigEndPntConfigMax1,
    pktcSigEndPntConfigMax2,
    pktcSigEndPntConfigMax1QEnable,
    pktcSigEndPntConfigMax2QEnable,
    pktcSigEndPntConfigMWD,
    pktcSigEndPntConfigTdinit,
    pktcSigEndPntConfigTdmin,
    pktcSigEndPntConfigTdmax,
    pktcSigEndPntConfigRtoMax,
    pktcSigEndPntConfigRtoInit,
    pktcSigEndPntConfigLongDurationKeepAlive,
    pktcSigEndPntConfigThist,
    pktcSigEndPntConfigStatus,
```

```
    pktcSigEndPntConfigCallWaitingMaxRep,
    pktcSigEndPntConfigCallWaitingDelay,
    pktcSigEndPntStatusCallIpAddressType,
    pktcSigEndPntStatusCallIpAddress,
    pktcSigEndPntStatusError
}
```

```
STATUS current
DESCRIPTION
    "Group of MIB objects containing signaling configuration
```

information that is applicable per-endpoint."  
 ::= { pktcSigGroups 2 }

pktcInternationalGroup OBJECT-GROUP

OBJECTS {

pktcSigEndPntConfigMinHookFlash,  
pktcSigEndPntConfigMaxHookFlash,  
pktcSigEndPntConfigPulseDialInterdigitTime,  
pktcSigEndPntConfigPulseDialMinMakeTime,  
pktcSigEndPntConfigPulseDialMaxMakeTime,  
pktcSigEndPntConfigPulseDialMinBreakTime,  
pktcSigEndPntConfigPulseDialMaxBreakTime,  
pktcSigDevRingCadence,  
pktcSigDevCidSigProtocol,  
pktcSigDevCidDelayAfterLR,  
pktcSigDevCidDtmfStartCode,  
pktcSigDevCidDtmfEndCode,  
pktcSigDevVmwiSigProtocol,  
pktcSigDevVmwiDelayAfterLR,  
pktcSigDevVmwiDtmfStartCode,  
pktcSigDevVmwiDtmfEndCode,  
pktcSigDevvpAsDtsDuration,  
pktcSigDevCidMode,  
pktcSigDevCidAfterRing,  
pktcSigDevCidAfterDTAS,  
pktcSigDevCidAfterRPAS,  
pktcSigDevRingAfterCID,  
pktcSigDevCidDTASAfterLR,  
pktcSigDevVmwiMode,  
pktcSigDevVmwiAfterDTAS,  
pktcSigDevVmwiAfterRPAS,  
pktcSigDevVmwiDTASAfterLR,  
pktcSigPowerRingFrequency,  
pktcSigPulseSignalFrequency,  
pktcSigPulseSignalDbLevel,  
pktcSigPulseSignalDuration,  
pktcSigPulseSignalPulseInterval,  
pktcSigPulseSignalRepeatCount,  
pktcSigDevToneDbLevel,

pktcSigDevToneFreqCounter,  
pktcSigDevToneWholeToneRepeatCount,  
pktcSigDevToneSteady,  
pktcSigDevToneFirstFreqValue,  
pktcSigDevToneSecondFreqValue,  
pktcSigDevToneThirdFreqValue,

pktcSigDevToneFourthFreqValue,  
pktcSigDevToneFreqMode,  
pktcSigDevToneFreqAmpModePrtg,  
pktcSigDevToneFreqOnDuration,  
pktcSigDevToneFreqOffDuration,  
pktcSigDevToneFreqRepeatCount  
}

STATUS current

DESCRIPTION

" Group of objects that extend the behavior of existing  
objects to support operations in the widest possible set  
of international marketplaces.

Note that many of these

objects represent a superset of behaviors described in  
other objects within this MIB module."

::= { pktcSigGroups 3 }

pktcLLinePackageGroup OBJECT-GROUP

OBJECTS {

pktcSigDevR0Cadence,  
pktcSigDevR1Cadence,  
pktcSigDevR2Cadence,  
pktcSigDevR3Cadence,  
pktcSigDevR4Cadence,  
pktcSigDevR5Cadence,  
pktcSigDevR6Cadence,  
pktcSigDevR7Cadence,  
pktcSigDevRgCadence,  
pktcSigDevRsCadence  
}

STATUS current

DESCRIPTION

"Group of Objects to support the L line package."

::= { pktcSigGroups 4 }

pktcELinePackageGroup OBJECT-GROUP

OBJECTS {

pktcSigDevR0Cadence,  
pktcSigDevR1Cadence,  
pktcSigDevR2Cadence,  
pktcSigDevR3Cadence,  
pktcSigDevR4Cadence,  
pktcSigDevR5Cadence,

pktcSigDevR6Cadence,

pktcSigDevR7Cadence,



```
pktcSigDevRgCadence,
pktcSigDevRsCadence,
pktcSigPulseSignalFrequency,
pktcSigPulseSignalDbLevel,
pktcSigPulseSignalDuration,
pktcSigPulseSignalPulseInterval,
pktcSigPulseSignalRepeatCount,
pktcSigDevRingCadence
}
STATUS current
DESCRIPTION
    "Group of Objects to support the E line package."
 ::= { pktcSigGroups 5 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-
SIG-MIB
```

No license file was found, but licenses were detected in source scan.

SNA-NAU-MIB DEFINITIONS ::= BEGIN

```
-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7. It also contains generic objects
-- which can be used to manage LU 6.2.

-- Naming conventions in this document:
-- The following names are used in object descriptors according to
-- SNA conventions.
-- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
-- 2.1.
-- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
-- 4,7 or 6.2.
```

IMPORTS

```
    DisplayString, RowStatus, TimeStamp, InstancePointer
    FROM SNMPv2-TC
```

```
    Counter32, Gauge32, Integer32, mib-2,
    OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
    FROM SNMPv2-SMI
```

```
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF;
```

snanauMIB MODULE-IDENTITY  
LAST-UPDATED "9405120900Z"

ORGANIZATION "IETF SNA NAU MIB Working Group"

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DESCRIPTION

"This is the MIB module for objects used to  
manage

SNA devices."

::= { mib-2 34 }

-- The SNANAU MIB module contains an objects part and a conformance part.

-- Objects are organized into the following groups:

-- (1)snaNode group,

-- (2)snaLU group,

-- (3)snaMgtTools group.

snanauObjects OBJECT IDENTIFIER ::= { snanauMIB 1 }

snaNode OBJECT IDENTIFIER ::= { snanauObjects 1 }

snaLu OBJECT IDENTIFIER ::= { snanauObjects 2 }

snaMgtTools OBJECT IDENTIFIER ::= { snanauObjects 3 }

-- \*\*\*\*\*

```

-- snaNode group
--
-- It contains Managed Objects related to any type of Node and
-- some specific objects for Node Type 2.0.
-- *****
-- *****
-- The following table contains generic Node configuration
-- parameters.
-- *****

```

snaNodeAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains objects which describe the configuration parameters for an SNA Node. Link specific configuration objects are contained in a separate MIB module (e.g., SNA DLC MIB) corresponding to the link type.

The table snaNodeAdminLinkTable contains objects which identify the relationship between node instances and link instances.

The entries (i.e., rows) in this table can be created by either an Agent or a Management Station. The Management Station can do this through setting the appropriate value in the snaNodeAdminRowStatus.

The snaNodeAdminRowStatus object describes the status of an entry and is used to change the status of an entry. The entry is deleted

by an Agent based on the value of the snaNodeAdminRowStatus.

The snaNodeAdminState object describes the desired operational state of a Node and is used to change the operational state of a Node. For example, such information may be obtained from a configuration file.

How an Agent or a Management Station obtains the initial value of each object at creation time is an implementation specific issue.

For each entry in this table, there is a corresponding entry in the snaNodeOperTable.

While the objects in this table describe the desired or configured operational values of the SNA Node, the actual runtime values are contained in snaNodeOperTable."

::= { snaNode 1 }

snaNodeAdminEntry OBJECT-TYPE

SYNTAX SnaNodeAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains the configuration parameters for one SNA Node instance. The objects in the entry have read-create access.

An entry can be created, modified or deleted. The object snaNodeAdminRowStatus is used (i.e., set) to create or delete a row entry."

INDEX { snaNodeAdminIndex }

::= { snaNodeAdminTable 1 }

SnaNodeAdminEntry ::= SEQUENCE {

snaNodeAdminIndex

Integer32,

snaNodeAdminName

DisplayString,

snaNodeAdminType

INTEGER,

snaNodeAdminXidFormat

INTEGER,

snaNodeAdminBlockNum

DisplayString,

snaNodeAdminIdNum

DisplayString,

snaNodeAdminEnablingMethod

INTEGER,

snaNodeAdminLuTermDefault

INTEGER,

snaNodeAdminMaxLu

Integer32,

snaNodeAdminHostDescription

DisplayString,

snaNodeAdminStopMethod

INTEGER,

snaNodeAdminState

INTEGER,

snaNodeAdminRowStatus

RowStatus

}

snaNodeAdminIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Index used to uniquely identify each Node instance.

If an Agent creates the entry, then it will assign this number otherwise a Management Station generates a random number when it reserves the entry for creation."

::= { snaNodeAdminEntry 1 }

snaNodeAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired name of the Node for use during Node activation.

In Type 2.1 networks, this is a fully-qualified name, meaning that the Node name is preceded by the NetId (if present) with a period as the delimiter.

A write operation to this object will not change the operational value reflected in snaNodeOperName until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaNodeAdminEntry 2 }

snaNodeAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

pu10(2),

pu20(3),

t21len(4),

endNode(5),

networkNode(6)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of SNA Node.

A write operation to this object will

not change the operational value reflected

in snaNodeOperType until the Node has  
been re-activated (e.g., after the next initialization  
of the SNA services)."  
::= { snaNodeAdminEntry 3 }

snaNodeAdminXidFormat OBJECT-TYPE

SYNTAX INTEGER {  
format0(1),  
format1(2),  
format3(3)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the type of XID format used for  
this Node. Note that there is no format type 2.

A write operation to this object will  
not change the operational value reflected  
in snaNodeOperAdminXidFormat until the Node has  
been re-activated (e.g., after the next initialization  
of the SNA services)."

::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-create

STATUS

current

DESCRIPTION

"The value indicates the block number for this Node  
instance. It is the first 3 hexadecimal digits of the  
SNA Node id.

A write operation to this object will  
not change the operational value reflected  
in snaNodeOperBlockNum until the Node has  
been re-activated (e.g., after the next initialization  
of the SNA services)."

::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id.

A write operation to this object will not change the operational value reflected in `snaNodeOperIdNum` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaNodeAdminEntry 6` }

#### `snaNodeAdminEnablingMethod` OBJECT-TYPE

SYNTAX INTEGER {

other (1),  
startup (2),  
demand (3),  
onlyMS (4)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates how the Node should be activated for the first time.

The values have the following meanings:

other (1) - may be used for proprietary methods not listed in this enumeration,  
startup (2) - at SNA services' initialization time (this is the default),  
demand (3) - only when LU is requested by application,  
or  
onlyMS (4) - by a Management Station only.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperEnablingMethod` depending on the Agent implementation. If the Agent implementation accepts immediate changes, then the behavior of the Node changes immediately and not only after the next system startup of the SNA services. An immediate change may only apply when the current value 'demand (3)' is changed to 'onlyMS (4)' and vice versa."

::= { `snaNodeAdminEntry 7` }

#### `snaNodeAdminLuTermDefault` OBJECT-TYPE

SYNTAX INTEGER {

```
unbind (1),
termself (2),
rshutd (3),
poweroff(4)
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired default method used to deactivate LUs for this Node  
For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU

session or an SNA NOTIFY request on

the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

The default behavior indicated by the value of this object may be overridden for an LU instance. The override is performed by setting the snaLuAdminTerm object instance in the snaLuAdminTable to the desired value.

A write operation to this object may immediately change the operational value reflected in snaNodeOperLuTermDefault depending on the Agent implementation."

```
::= { snaNodeAdminEntry 8 }
```

snaNodeAdminMaxLu OBJECT-TYPE

SYNTAX Integer32



MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of LUs that may be activated for this Node. For PU2.1, this object refers to the number of dependent LUs.

A write operation to this object will not change the operational value reflected in `snaNodeOperMaxLu` until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { `snaNodeAdminEntry 9` }

`snaNodeAdminHostDescription` OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value identifies the remote host associated with this Node.

Since SSCP Id's may not be unique across hosts, the host description is required to uniquely identify the SSCP.

This object

is only applicable to PU2.0 type

Nodes. If the remote host is unknown, then the value is the null string.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperHostDescription` depending on the Agent implementation."

::= { `snaNodeAdminEntry 10` }

`snaNodeAdminStopMethod` OBJECT-TYPE

SYNTAX INTEGER {

other (1),

normal (2),

immed (3),

force (4)

}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired method to be used by the Agent to stop a Node (i.e., change the Node's operational state to `inactive(1)` ).

The values have the following meaning:

- other (1) - used for proprietary methods not listed in this enumeration.
- normal(2) - deactivate only when there is no more activity on this Node (i.e., all data flows have been completed and all sessions have been terminated).
- immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.
- force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

A write operation to this object may immediately change the operational value reflected in `snaNodeOperStopMethod`

depending

on the Agent implementation."

::= { `snaNodeAdminEntry 11` }

`snaNodeAdminState` OBJECT-TYPE

```
SYNTAX INTEGER {  
    inactive (1),  
    active (2)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the SNA Node. This object is used by the Management Station to activate or deactivate the Node.

If the current value in `snaNodeOperState` is 'active (2)', then setting this object to 'inactive (1)' will initiate the Node shutdown process using the method indicated by `snaNodeOperStopMethod`.

If the current value in `snaNodeOperState` is 'inactive (1)', then setting this object to 'active (2)'

will initiate the  
Node's activation.

A Management Station can always set this object to  
'active (2)' irrespective of the value in the  
snaOperEnablingMethod."  
::= { snaNodeAdminEntry 12 }

snaNodeAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object is used by a Management Station to  
create or delete the row entry in the  
snaNodeAdminTable following  
the RowStatus textual convention.

Upon successful creation of  
the row, an Agent automatically creates a  
corresponding entry in the snaNodeOperTable with  
snaNodeOperState equal to 'inactive (1)'.

Row deletion can be Management Station or Agent  
initiated:

(a) The Management

Station can set the value to

'destroy (6)' only when the value of  
snaNodeOperState of this Node instance is  
'inactive (1)'. The Agent will then delete the rows  
corresponding to this Node instance from the  
snaNodeAdminTable and the snaNodeOperTable.

(b) The Agent detects that a row is in the  
'notReady (3)' state for greater than a  
default period of 5 minutes.

(c) All rows with the snaNodeAdminRowStatus object's  
value of 'notReady (3)' will be removed upon the  
next initialization of the SNA services."

::= { snaNodeAdminEntry 13 }

-- \*\*\*\*\*  
-- The following object is updated when there is a change to  
-- the value of any object in the snaNodeAdminTable.  
-- \*\*\*\*\*

snaNodeAdminTableLastChange

OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the timestamp (e.g., the Agent's sysUpTime value) of the last change made to any object in the snaNodeAdminTable, including row deletions/additions (e.g., changes to snaNodeAdminRowStatus values).

This object can be used to reduce frequent retrievals of the snaNodeAdminTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node configuration information has been changed. Only then will the Management Station retrieve the entire table."

::= { snaNode  
2 }

-- \*\*\*\*\*  
-- The following table contains Node operational parameters.  
-- \*\*\*\*\*

snaNodeOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the dynamic parameters which have read-only access. These objects reflect the actual status of the Node. The entries in this table cannot be created or modified by a Management Station.

This table augments the snaNodeAdminTable."

::= { snaNode 3 }

snaNodeOperEntry OBJECT-TYPE

SYNTAX SnaNodeOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The entry contains parameters which describe the state of

one Node. The entries are created by the  
Agent. They have read-only access."  
AUGMENTS { snaNodeAdminEntry }  
::= { snaNodeOperTable 1 }

```
SnaNodeOperEntry ::= SEQUENCE {  
    snaNodeOperName  
        DisplayString,  
    snaNodeOperType  
        INTEGER,  
    snaNodeOperXidFormat  
        INTEGER,  
    snaNodeOperBlockNum  
        DisplayString,  
    snaNodeOperIdNum  
        DisplayString,  
    snaNodeOperEnablingMethod  
        INTEGER,  
    snaNodeOperLuTermDefault  
        INTEGER,  
    snaNodeOperMaxLu  
        Integer32,  
    snaNodeOperHostDescription  
        DisplayString,  
    snaNodeOperStopMethod  
        INTEGER,  
    snaNodeOperState  
        INTEGER,  
    snaNodeOperHostSscpId  
        OCTET STRING,  
    snaNodeOperStartTime  
        TimeStamp,  
    snaNodeOperLastStateChange  
        TimeStamp,  
    snaNodeOperActFailures  
        Counter32,  
    snaNodeOperActFailureReason  
        INTEGER  
}
```

snaNodeOperName OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..17))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The value identifies the current name of the Node.  
In Type 2.1 networks, this  
is a fully-qualified name, meaning that the Node name

is preceded by the NetId (if present) with a period  
as the delimiter."

::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE

SYNTAX INTEGER {

other(1),  
pu10(2),  
pu20(3),  
t21LEN(4),  
endNode(5),  
networkNode(6)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current type of the Node."

::= { snaNodeOperEntry 2 }

snaNodeOperXidFormat OBJECT-TYPE

SYNTAX INTEGER {

format0 (1),  
format1 (2),  
format3 (3)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the type of XID format currently  
used for this Node.

Note that there is no format type 2."

::= { snaNodeOperEntry 3 }

snaNodeOperBlockNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(3))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the block number for this Node  
instance. It is the first 3 hexadecimal digits  
of the SNA Node id."

::= { snaNodeOperEntry 4 }

snaNodeOperIdNum OBJECT-TYPE

SYNTAX DisplayString (SIZE(5))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the ID number for this Node instance. This is the last 5 hexadecimal digits of the SNA Node id."

::= { snaNodeOperEntry 5 }

#### snaNodeOperEnablingMethod OBJECT-TYPE

SYNTAX INTEGER {

other (1),  
startup (2),  
demand (3),  
onlyMS (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates how the Node is activated for the first time.

The values have the following meanings:

other (1) - not at boot time, LU activation  
or by a Management Station;  
startup (2) - at SNA services' initialization  
time (this is the default),

demand (3) - only when LU is requested by  
application,  
onlyMS (4) - by a network Management Station  
only."

::= { snaNodeOperEntry 6 }

#### snaNodeOperLuTermDefault OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the default method used to deactivate LUs for this Node.

For LU6.2s, 'unbind(1)' is the only valid value.

unbind(1) - terminate the LU-LU session by sending  
an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending  
an SNA TERM-SELF (Terminate Self) request on  
the SSCP-LU session. The SSCP will inform

the

remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

This object describes the default behavior for this Node; however, it is possible that for a specific LU the behavior indicated by the snaLuOperTerm object is different."

::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current, maximum number of LUs that are activated for this Node. For PU2.1, this object refers to the number of dependent LUs."

::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..128))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the remote host currently associated with this Node.

Since SSCP Id's may not be unique across hosts, the

host description

is required to uniquely identify the SSCP."

::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE



SYNTAX INTEGER {

other (1),  
normal (2),  
immed (3),  
force (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current Node shutdown method to be used by the Agent to stop the Node. When the Agent changes the Node's state to 'inactive (1)', the Agent must use the shutdown method indicated by this object.

The values have the following meaning:

other (1) - proprietary method not listed in this enumeration

normal(2) - deactivate only when there is no more activity on this Node (i.e., all

data flows

have been completed and all sessions have been terminated).

immed(3) - deactivate immediately regardless of current activities on this Node. Wait for deactivation responses (from remote Node) before changing the Node state to inactive.

force(4) - deactivate immediately regardless of current activities on this Node. Do not wait for deactivation responses (from remote Node) before changing the Node state to inactive.

Note that a write operation to snaNodeAdminOperStopMethod may immediately change the value of snaNodeOperStopMethod depending on the Agent implementation."

::= { snaNodeOperEntry 10 }

snaNodeOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),  
active (2),  
waiting (3),  
stopping (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current state of the Node.

The values have the following meanings:

inactive (1), a row representing the Node has been created in the AdminTable and, the Node is ready for activation -or- an active Node has been stopped -or- a waiting Node has returned to the inactive state.

waiting (3), a request to have the Node activated has been issued, and the Node is pending activation.

active (2), the Node is ready and operating.

stopping (4), the request to stop the Node has been

issued while the StopMethod normal or immediate is used."

::= { snaNodeOperEntry 11 }

snaNodeOperHostSscpId OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..6))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the current SSCP Id associated with the Node. This object is only applicable to PU 2.0s. If the Node is not a PU 2.0 type, then this object contains a zero length string."

::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g, the Agent's sysUpTime value) at the Node activation."

::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)

at the last state change of the Node."  
::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"This value identifies the number of failed Node  
activation attempts."

::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE

SYNTAX INTEGER {  
other (1),  
linkFailure (2),  
noResources (3),  
badConfiguration (4),  
internalError (5)  
}

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value indicates the reason for the activation  
failure. The value 'other (1)' indicates a reason  
not

listed in the enumeration. This object  
will be sent in the trap snaNodeActFailTrap."

::= { snaNodeOperEntry 16 }

-- \*\*\*\*\*  
-- The following object is updated when there is a change to  
-- the value of snaNodeOperState in any row or a row is  
-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.  
-- \*\*\*\*\*

snaNodeOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value)  
at the last change made to any object in the  
snaNodeOperTable, including row deletions/additions  
made as a result of changes to the  
snaNodeAdminRowStatus object.

This object can be used to reduce frequent retrievals of the snaNodeOperTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."

```
::= { snaNode 4 }
```

```
-- *****
-- The following table contains PU 2.0 statistics dynamic parameters.
-- *****
```

```
snaPu20StatsTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SnaPu20StatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table contains the dynamic parameters which
        have read-only access. The entries in this table
        correspond
        to PU 2.0 entries in the snaNodeOperTable
        and cannot be created by a Management Station."
    ::= { snaNode 5 }
```

```
snaPu20StatsEntry OBJECT-TYPE
    SYNTAX SnaPu20StatsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "The entry contains parameters which describe the
        statistics for one PU 2.0. They have read-only
        access.
        The counters represent traffic for all kinds
        of sessions: LU-LU, SSCP-PU, SSCP-LU.

        Each Node of PU Type 2.0 from the snaNodeAdminTable
        has one entry in this table and the index used
        here has the same value as snaNodeAdminIndex of
        that PU. The entry is created by the Agent."
    INDEX { snaNodeAdminIndex }
    ::= { snaPu20StatsTable 1 }
```

```
SnaPu20StatsEntry ::= SEQUENCE {
    snaPu20StatsSentBytes
```

```

    Counter32,
snaPu20StatsReceivedBytes
    Counter32,
snaPu20StatsSentPius
    Counter32,
snaPu20StatsReceivedPius
    Counter32,
snaPu20StatsSentNegativeResps
    Counter32,
snaPu20StatsReceivedNegativeResps
    Counter32,
snaPu20StatsActLus
    Gauge32,
snaPu20StatsInActLus
    Gauge32,
snaPu20StatsBindLus
    Gauge32
}

```

snaPu20StatsSentBytes OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes sent by this Node."
 ::= { snaPu20StatsEntry 1 }

```

snaPu20StatsReceivedBytes OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes received by this Node."
 ::= { snaPu20StatsEntry
2 }

```

snaPu20StatsSentPius OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of PIUs sent by this Node."
 ::= { snaPu20StatsEntry 3 }

```

snaPu20StatsReceivedPius OBJECT-TYPE

```

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current

```

DESCRIPTION

"The number of PIUs received by this Node."

::= { snaPu20StatsEntry 4 }

snaPu20StatsSentNegativeResps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses sent  
by this Node."

::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of negative responses received  
  
by this Node."

::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of LUs on this PU which have  
received and responded to ACTLU from the host."

::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of LUs on this PU which have  
not received an ACTLU from the host. This is  
possible if the number of configured LUs exceeds  
that on the host."

::= { snaPu20StatsEntry 8 }

snaPu20StatsBindLus OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of LUs on this PU which have received and acknowledged a BIND request from the host."  
::= { snaPu20StatsEntry 9 }

-- \*\*\*\*\*  
-- The following table contains the association between Nodes and link identifiers.  
-- It is used for configuration purposes.  
-- \*\*\*\*\*

snaNodeLinkAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains the references to link specific tables. If a Node is configured for multiple links, then the Node will have multiple entries in this table.

The entries in this table can be generated initially, after initialization of SNA service, by the Agent which uses information from Node configuration file.

Subsequent modifications of parameters, creation of new Nodes link entries and deletion of entries is possible.  
The modification to this table can be saved in the Node configuration file for the next initialization of SNA service, but the mechanism for this function is not defined here."

::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE

SYNTAX SnaNodeLinkAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry contains the configuration information that associates a Node instance to one link instance.

The objects in the entry have read-create access.

Entry can be created, modified or deleted.

The object snaNodeLinkAdminRowStatus is used (set) to create or delete an entry.

The object

snaNodeLinkAdminSpecific can be set  
later, after the entry has been created."  
INDEX { snaNodeAdminIndex,  
snaNodeLinkAdminIndex }  
::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {  
snaNodeLinkAdminIndex  
Integer32,  
snaNodeLinkAdminSpecific  
InstancePointer,  
snaNodeLinkAdminMaxPiu  
Integer32,  
snaNodeLinkAdminRowStatus  
RowStatus  
}

snaNodeLinkAdminIndex OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"This value is used to index the instances of objects.  
If an Agent creates the entry, then it will assign  
this number otherwise a Management Station  
generates a random number when it reserves the  
entry for creation."  
::=  
{ snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE  
SYNTAX InstancePointer  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This value points to the row in the table  
containing information on the link instance.  
(e.g., the sdleLSAdminTable of  
the SNA DLC MIB module)."  
::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
"This value identifies the maximum number of octets  
that can be exchanged by this Node in one



Path Information Unit (PIU)."  
::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaNodeLinkAdminTable. To activate a row, a Management Station sets the value to 'active (1)' or 'notReady (3)'. Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaNodeLinkOperTable.

Row deletion can be Management Station or Agent initiated:

- (a) The Management Station can set the value to 'destroy (6)' only when the value of snaNodeLinkOperState of this Link instance is 'inactive (1)'. The Agent will then delete the row corresponding to this Link instance from snaNodeLinkOperTable and from snaNodeLinkAdminTable.
- (b) The Agent detects that a row is in the 'notReady (3)' state for greater than a

default period of 5 minutes.

- (c) The Agent will not include a row with RowStatus='notReady (3)', after SNA system re-initialization (e.g., reboot)."

::= { snaNodeLinkAdminEntry 4 }

-- \*\*\*\*\*  
-- The following object is updated when there is a change to  
-- the value of any object in the snaNodeLinkAdminTable.  
-- \*\*\*\*\*

snaNodeLinkAdminTableLastChange OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) at the last

change made to any object in the snaNodeLinkAdminTable, including row deletions/additions (i.e., changes to the snaNodeLinkAdminRowStatus object).

This object can be used to reduce frequent retrievals of the snaNodeLinkAdminTable by a Management Station. It is expected that a Management Station will periodically poll this object and compare its current value with the previous one. A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."

```
::= { snaNode 7 }
```

```
-- *****  
-- The following table contains the association between  
-- Nodes and link identifiers.  
-- It provides the current status.  
-- *****
```

```
snaNodeLinkOperTable OBJECT-TYPE  
    SYNTAX SEQUENCE OF SnaNodeLinkOperEntry  
    MAX-ACCESS not-accessible  
    STATUS current  
    DESCRIPTION  
        "This table contains all references  
to link  
specific tables for operational parameters.  
If a Node is configured for multiple links,  
then the Node will have multiple entries in  
this table. This table augments the  
snaNodeLinkAdminTable."  
    ::= { snaNode 8 }
```

```
snaNodeLinkOperEntry OBJECT-TYPE  
    SYNTAX SnaNodeLinkOperEntry  
    MAX-ACCESS not-accessible  
    STATUS current  
    DESCRIPTION  
        "Entry contains all current parameters for one  
Node link. The objects in the entry have  
read-only access."  
    AUGMENTS { snaNodeLinkAdminEntry }  
    ::= { snaNodeLinkOperTable 1 }
```

```
SnaNodeLinkOperEntry ::= SEQUENCE {
    snaNodeLinkOperSpecific
        InstancePointer,
    snaNodeLinkOperMaxPiu
        Integer32
}
```

snaNodeLinkOperSpecific OBJECT-TYPE

SYNTAX InstancePointer

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"This value points to the row in the table containing information on the link instance. (e.g., the sdlcLSOperTable of the SNA DLC MIB module)."

::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Maximum number of octets that can be exchanged by this Node in one Path Information Unit (PIU)."

::= { snaNodeLinkOperEntry 2 }

```
-- *****
-- The following object is updated when a row is added/deleted
-- from the snaNodeLinkOperTable.
-- *****
```

snaNodeLinkOperTableLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp of the last change made to any object in the snaNodeLinkOperTable, including row deletions/additions.

This object can be used to reduce frequent retrievals of the snaNodeLinkOperTable by a Management Station. It is expected that a

Management Station will periodically poll this object and compare its current value with the previous one.  
A difference indicates that some Node operational information has been changed. Only then will the Management Station retrieve the entire table."

::= { snaNode 9 }

-- \*\*\*\*\*  
-- Traps  
-- \*\*\*\*\*

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap

NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,  
snaNodeOperState }

STATUS current

DESCRIPTION

"This trap indicates that the operational state (i.e., value of the snaNodeOperState object) of a Node has changed. The following variables are returned:  
snaNodeOperName - current name of the Node, with the instance identifying the Node; and,  
snaNodeOperState - current state after the change."

::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE

OBJECTS { snaNodeOperName,  
snaNodeOperState,  
snaNodeOperActFailureReason }

STATUS current

DESCRIPTION

"This trap indicates a Node activation failure. The value of snaNodeOperState indicates the current state after the activation attempt. The value of snaNodeOperActFailureReason indicates the failure reason."

::= { snaNodeTraps 2 }

-- \*\*\*\*\*  
-- snaLu group  
--  
-- It contains Managed Objects related to LUs in general and some  
-- specific for LUs of type 0, 1, 2, 3.

-- \*\*\*\*\*

-- \*\*\*\*\*

-- The following table contains LU configuration parameters.

-- \*\*\*\*\*

snaLuAdminTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains LU configuration information.

The rows in this table can be created and deleted

by a Management Station.

Only objects which are common to all types of LUs

are included in this table."

::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE

SYNTAX SnaLuAdminEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains configuration variables for an LU."

INDEX { snaNodeAdminIndex, snaLuAdminLuIndex }

::= { snaLuAdminTable 1 }

SnaLuAdminEntry ::= SEQUENCE {

snaLuAdminLuIndex

Integer32,

snaLuAdminName

DisplayString,

snaLuAdminSnaName

DisplayString,

snaLuAdminType

INTEGER,

snaLuAdminDepType

INTEGER,

snaLuAdminLocalAddress

OCTET STRING,

snaLuAdminDisplayModel

INTEGER,

snaLuAdminTerm

INTEGER,

snaLuAdminRowStatus

RowStatus

}

snaLuAdminLuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value identifies the unique index for an  
LU instance within a Node."

::= { snaLuAdminEntry 1 }

snaLuAdminName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the user configurable  
name for this LU. If a name is not assigned to the LU,  
then this object contains a zero length string.

A write operation to this object will  
not change the operational value reflected  
in snaLuOperName until the Node has  
been re-activated (e.g., after the next  
initialization of the SNA services)."

::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE

SYNTAX DisplayString (SIZE(1..17))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies  
the SNA LU name  
used in exchange of SNA data.

A write operation to this object will  
not change the operational value reflected  
in snaLuOperSnaName until the Node has  
been re-activated (e.g., after the next  
initialization of the SNA services)."

::= { snaLuAdminEntry 3 }

snaLuAdminType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

lu0(2),

lu1(3),

lu2(4),  
lu3(5),  
lu4(6),  
lu62(7),  
lu7(8)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the LU type.

A write operation to this object will not change the operational value reflected in snaLuOperAdminType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 4 }

snaLuAdminDepType OBJECT-TYPE

SYNTAX INTEGER {  
dependent(1),  
independent(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies whether the LU is dependent or independent.

A write operation to this object will not change the operational value reflected in snaLuOperDepType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 5 }

snaLuAdminLocalAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254 and for independent LUs this value is always 0.

A write operation to this object will not change the operational value reflected in snaLuOperLocalAddress

until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuAdminEntry 6 }

snaLuAdminDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),  
model2A(2),  
model2B(3),  
model3A(4),  
model3B(5),  
model4A(6),  
model4B(7),  
model5A(8),  
model5B(9),  
dynamic(10)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The value of this object identifies the model type and screen size of the terminal connected to the host.

This

is only valid for LU Type 2. The values have the following meaning:

model2A(2) - Model 2 (24 rows x 80 cols) with base attributes

model2B(3) - Model 2 (24 rows x 80 cols) with extended attributes

model3A(4) - Model 3 (32 rows x 80 cols) with base attributes

model3B(5) - Model 3 (32 rows x 80 cols) with extended attributes

model4A(6) - Model 4 (43 rows x 80 cols) with base attributes

model4B(7) - Model 4 (43 rows x 80 cols) with extended attributes

model5A(8) - Model 5 (27 rows x 132 cols) with base attributes

model5B(9) - Model 5 (27 rows x 132 cols) with extended attributes

dynamic(10) - Screen size determine with

BIND and Read

Partition Query.

In case this LU is not Type 2, then this object should contain the invalid(1) value."



::= { snaLuAdminEntry 7 }

snaLuAdminTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff (4)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This value identifies the desired method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF

(Terminate Self) request on

the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner

will send an UNBIND

to terminate the session.

A write operation to this object may immediately change the operational value reflected in snaLuOperTerm depending on the Agent implementation."

::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object is used by a Management Station to create or delete the row entry in the snaLuAdminTable.

To activate a row, the Management Station sets the value to 'active (1)' or 'notReady (3)'.

Upon successful creation of the row, the Agent automatically creates a corresponding entry in the snaLuOperTable with snaLuOperState equal to 'inactive (1)'.

Row deletion can be Management Station

or Agent

initiated:

(a) The Management Station can set the value to 'destroy (6)' only when the value of snaLuOperState of this LU instance is 'inactive (1)'. The Agent will then delete the row corresponding to this LU instance from snaLuAdminTable and from snaLuOperTable.

(b) The Agent detects that a row is in the 'notReady (3)' state for greater than a default period of 5 minutes.

(c) The Agent will not create a row with RowStatus equal to 'notReady (3)', after SNA system re-initialization (e.g., reboot)."

::= { snaLuAdminEntry 9 }

-- \*\*\*\*\*  
-- The following table contains LU state dynamic parameters.  
-- \*\*\*\*\*

snaLuOperTable OBJECT-TYPE

SYNTAX

SEQUENCE OF SnaLuOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains dynamic runtime information and control variables relating to LUs.

Only objects which are common to all types of LUs are included in this table. This table augments the snaLuAdminTable."

::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE  
SYNTAX SnaLuOperEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "Contains objects reflecting current information  
    for an LU.  
    Each entry is created by the Agent. All entries  
    have read-only access."  
AUGMENTS { snaLuAdminEntry }  
::= { snaLuOperTable 1 }

SnaLuOperEntry ::= SEQUENCE {  
    snaLuOperName  
        DisplayString,  
    snaLuOperSnaName  
        DisplayString,  
    snaLuOperType  
  
    INTEGER,  
    snaLuOperDepType  
        INTEGER,  
    snaLuOperLocalAddress  
        OCTET STRING,  
    snaLuOperDisplayModel  
        INTEGER,  
    snaLuOperTerm  
        INTEGER,  
    snaLuOperState  
        INTEGER,  
    snaLuOperSessnCount  
        Gauge32  
}

snaLuOperName OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..48))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "User configurable name for this LU. If a name  
    is not assigned, then this object contains a  
    zero length string."  
::= { snaLuOperEntry 1 }

snaLuOperSnaName OBJECT-TYPE  
SYNTAX DisplayString (SIZE(1..17))  
MAX-ACCESS read-only  
STATUS current

DESCRIPTION

"The value identifies the current SNA LU name."

::= { snaLuOperEntry 2 }

snaLuOperType OBJECT-TYPE

SYNTAX INTEGER {

other(1),

lu0(2),

lu1(3),

lu2(4),

lu3(5),

lu4(6),

lu62(7),

lu7(8)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current LU type."

::= { snaLuOperEntry 3 }

snaLuOperDepType OBJECT-TYPE

SYNTAX INTEGER {

dependent(1),

independent(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies whether the LU is currently dependent or independent.

A write operation to this object will not change the operational value reflected in snaLuOperDepType until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuOperEntry 4 }

snaLuOperLocalAddress

OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The local address for this LU is a byte with a value ranging from 0 to 254. For dependent LUs, this value ranges from 1 to 254; for independent LUs this value

is always 0.

A write operation to this object will not change the operational value reflected in snaLuOperLocalAddress until the Node has been re-activated (e.g., after the next initialization of the SNA services)."

::= { snaLuOperEntry 5 }

#### snaLuOperDisplayModel OBJECT-TYPE

SYNTAX INTEGER {

invalid(1),  
model2A(2),  
model2B(3),  
model3A(4),  
model3B(5),  
model4A(6),  
model4B(7),  
model5A(8),  
model5B(9),  
dynamic(10)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The screen model type of the terminal connected to the host. If this LU is not Type 2, then this object should contain the 'invalid(1)' value."

::= { snaLuOperEntry 6 }

#### snaLuOperTerm OBJECT-TYPE

SYNTAX INTEGER {

unbind (1),  
termself (2),  
rshutd (3),  
poweroff (4)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current method for deactivation of this LU. This value overrides the default method (snaNodeOperLuTermDefault) for this Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also

acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session."

::= { snaLuOperEntry 7 }

snaLuOperState OBJECT-TYPE

SYNTAX INTEGER {

inactive (1),

active (2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the current operational state of this LU.

It has different meanings for dependent and independent LUs.

For dependent LUs the values indicate the following:

inactive (1) - LU didn't receive ACTLU, or it received DACTLU, or received ACTLU and sent negative response.

active (2) - LU received ACTLU and acknowledged positively.

For independent LUs the values indicate the following:

active (2) - the LU is defined and is able to send and receive BIND.

inactive (1) - the LU has a session count equal to 0."

::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of currently active LU-LU sessions of this LU.

For the independent LU, if this object has value 0, it indicates that LU is inactive."

::= { snaLuOperEntry 9 }

-- \*\*\*\*\*

-- The following table contains LU session status parameters.

-- \*\*\*\*\*

snaLuSessnTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is a table containing objects which describe the operational state of LU sessions. Only objects which are common to all types of LU sessions are included in this table.

When a session's snaLuSessnOperState value changes to 'pendingBind (2)', then the corresponding entry in the session table is created by the Agent.

When the session's snaLuSessnOperState value changes to 'unbound (1)', then the session will be removed from the session table by the Agent."

::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE

SYNTAX SnaLuSessnEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry contains dynamic parameters for an LU-LU session.

The indices identify the Node, local LU, and remote LU for this session."

INDEX { snaNodeAdminIndex,  
snaLuAdminLuIndex,  
snaLuSessnRluIndex,

```
snaLuSessnIndex }  
::= { snaLuSessnTable 1 }
```

```
SnaLuSessnEntry ::= SEQUENCE {  
    snaLuSessnRluIndex  
        Integer32,  
    snaLuSessnIndex  
        Integer32,  
    snaLuSessnLocalApplName  
        DisplayString,  
    snaLuSessnRemoteLuName  
        DisplayString,  
    snaLuSessnMaxSndRuSize  
        INTEGER,  
    snaLuSessnMaxRcvRuSize  
        INTEGER,  
    snaLuSessnSndPacingSize  
        INTEGER,  
    snaLuSessnRcvPacingSize  
        INTEGER,  
    snaLuSessnActiveTime  
        TimeStamp,  
    snaLuSessnAdminState  
        INTEGER,  
    snaLuSessnOperState  
        INTEGER,  
    snaLuSessnSenseData  
        OCTET STRING,  
    snaLuSessnTerminationRu  
        INTEGER,  
    snaLuSessnUnbindType  
        OCTET STRING,  
    snaLuSessnLinkIndex  
        Integer32  
}
```

snaLuSessnRluIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value may be used to identify information about the session partner LU in a table of information about remote LUs. Such a table is not defined in this document. If a table of remote LU information is not implemented, or if the table is implemented but it does not contain information about the partner LU for a particular session (as for dependent LU-LU sessions)



then this object will have a value of zero."

::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the unique index of the session.

It is recommended

that an Agent should not reuse the

index of a deactivated session for a significant  
period of time (e.g., one week)."

::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..48))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the local application using this LU.

If the local application is unknown, then this object  
contains a zero length string."

::= { snaLuSessnEntry 3 }

snaLuSessnRemoteLuName OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..17))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"For dependent LUs which are indicated by the  
snaLuOperDepType object containing the value  
'dependent (1)', this object contains the Primary  
LU (PLU) name. For independent LUs,  
this object contains the fully-qualified

remote LU

name of this 6.2 session.

A fully qualified name is an SNA NAU entity name  
preceded by the NetId and a period as the delimiter."

::= { snaLuSessnEntry 4 }

snaLuSessnMaxSndRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for sending  
RUs."

::= { snaLuSessnEntry 5 }

snaLuSessnMaxRcvRuSize OBJECT-TYPE

SYNTAX INTEGER (1..8192)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum RU size used on this session for receiving RUs."

::= { snaLuSessnEntry 6 }

snaLuSessnSndPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the send pacing window on this session."

::= {

snaLuSessnEntry 7 }

snaLuSessnRcvPacingSize OBJECT-TYPE

SYNTAX INTEGER (1..63)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The size of the receive pacing window on this session."

::= { snaLuSessnEntry 8 }

snaLuSessnActiveTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) when this session becomes active."

::= { snaLuSessnEntry 9 }

snaLuSessnAdminState OBJECT-TYPE

SYNTAX INTEGER {

unbound (1),

bound (3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value indicates the desired operational state of the session. This object is used to

change the operational state of the session.

A Management Station  
can only change the operational  
state of the session to 'unbound (1)'.

Session deactivation:

If a session is in the operational state  
'bound (3)' then setting the value of this  
object to 'unbound (1)' will initiate the  
session shutdown.

If a session is in the operational state  
'pendingBind (2)' then setting the value of this  
object to 'unbound (1)' will initiate the session  
shutdown.

If a session is in the operational state  
'pendingUnbind (4)' for an abnormally long period  
of time (e.g., three minutes) then setting the value  
of this object to 'unbound (1)' will change the  
session operational state to 'unbound (1)'.

Note: for dependent LUs, deactivating the session is  
the same as deactivating  
the LU."

```
::= { snaLuSessnEntry 10 }
```

snaLuSessnOperState OBJECT-TYPE

```
SYNTAX INTEGER {  
    unbound (1),  
    pendingBind (2),  
    bound (3),  
    pendingUnbind (4)  
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current operational state of  
the session.

'unbound (1)' - session has been unbound;  
in this state it will be removed from the  
session table by the Agent.

'pendingBind (2)' - this state has different  
meanings for dependent and independent LUs;  
for dependent LU - waiting for BIND from  
the host, for independent LU - waiting for  
BIND response. When a session enters this

state, the corresponding entry in the

session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state  
when an UNBIND is sent and before the  
rsp(UNBIND) is received."

::= { snaLuSessnEntry 11 }

snaLuSessnSenseData OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..8))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the sense code when there is  
a BIND failure. It is taken from the negative BIND  
response or UNBIND request.

This is displayed as 8 hexadecimal digits."

::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE

SYNTAX INTEGER {

other (1),

bindFailure (2),

unbind (3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value identifies the SNA RU that terminated the  
session.

If the session is not in the unbound state, this object  
has a value of 'other (1)'."

::= { snaLuSessnEntry 13 }

snaLuSessnUnbindType OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..1))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If the session is in the unbound state, and it was  
terminated by an UNBIND, then this object contains  
the UNBIND type value (byte 1 of the UNBIND RU);  
otherwise the string is null."

::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value identifies the link over which the session passes. It is an index into snaNodeLinkAdminTable.

If the index value is not known,

the value of this

object shall be zero."

::= { snaLuSessnEntry 15 }

-- \*\*\*\*\*  
-- The following table contains LU sessions statistics dynamic  
-- parameters.  
-- \*\*\*\*\*

snaLuSessnStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuSessnStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains dynamic statistics information relating to LU sessions.

The entries in this table augment the entries in the snaLuSessnTable and cannot be created by a Management Station."

::= { snaLu 4 }

snaLuSessnStatsEntry OBJECT-TYPE

SYNTAX SnaLuSessnStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains statistics information for an LU session.

Each entry is created by the Agent.

Objects in this table have read-only access.

Each session from snaLuSessnTable has one entry in this table."

AUGMENTS { snaLuSessnEntry }

::= { snaLuSessnStatsTable 1 }

SnaLuSessnStatsEntry ::= SEQUENCE {

snaLuSessnStatsSentBytes

Counter32,

```
snaLuSessnStatsReceivedBytes
    Counter32,
snaLuSessnStatsSentRus
    Counter32,
snaLuSessnStatsReceivedRus
    Counter32,
snaLuSessnStatsSentNegativeResps
    Counter32,
snaLuSessnStatsReceivedNegativeResps
    Counter32
}
```

snaLuSessnStatsSentBytes OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes sent by the local LU."
 ::= { snaLuSessnStatsEntry 1 }
```

snaLuSessnStatsReceivedBytes OBJECT-TYPE

```
SYNTAX
Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of bytes received by the local LU."
 ::= { snaLuSessnStatsEntry 2 }
```

snaLuSessnStatsSentRus OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of RUs sent by the local LU."
 ::= { snaLuSessnStatsEntry 3 }
```

snaLuSessnStatsReceivedRus OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of RUs received by the local LU."
 ::= { snaLuSessnStatsEntry 4 }
```

snaLuSessnStatsSentNegativeResps OBJECT-TYPE

```
SYNTAX Counter32
MAX-ACCESS read-only
```

STATUS current  
DESCRIPTION  
"The number of negative responses sent by the  
local LU."  
::= { snaLuSessnStatsEntry 5 }

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE

SYNTAX  
Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of negative responses received by the  
local LU."  
::= { snaLuSessnStatsEntry 6 }

-- \*\*\*\*\*  
-- Traps  
-- \*\*\*\*\*

snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE

OBJECTS { snaLuOperName,  
snaLuOperSnaName,  
snaLuOperState }  
STATUS current  
DESCRIPTION  
"This trap indicates that the operational state  
(i.e., snaLuOperState value) of the LU has changed.  
The value of snaLuOperName indicates the name of the  
LU.  
The value of snaLuOperSnaName indicates the SNA name  
of LU.  
The value of snaLuOperState indicates the current  
state after  
change."  
::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE

OBJECTS { snaLuSessnLocalApplName,  
snaLuSessnRemoteLuName,  
snaLuSessnOperState,  
snaLuSessnSenseData }  
STATUS current  
DESCRIPTION  
"This trap indicates the failure of a BIND.

The value of snaLuSessnLocalAppName indicates the local application name.

The value of snaLuSessnPartnerName indicates the partner name.

The value of snaLuSessnOperState indicates the current state after change.

The value of snaLuSessnBindFailureReason indicates the failure reason.

The Agent should not generate more than 1 trap of this type per minute to minimize the level of management traffic on the network."

::= { snaLuTraps 2 }

-- \*\*\*\*\*

--

snaMgtTools group

--

-- Currently this group contains only one table.

-- \*\*\*\*\*

-- \*\*\*\*\*

-- The following table contains Response Time Monitoring (RTM)

-- configuration information and statistics for LU Type 2s.

-- RTM supports the capability to measure and report end-user

-- response times for dependent LUs. When the RTM state of an LU

-- is 'on', response times for each LU transaction are monitored.

-- A set of ranges is defined (e.g., Range 1 includes the number of

-- transactions with response times less than 1 second) using the

-- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).

-- A set of counters (one per range) identifies

-- the number of transactions within each response time range.

-- \*\*\*\*\*

snaLuRtmTable OBJECT-TYPE

SYNTAX SEQUENCE OF SnaLuRtmEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains Response Time Monitoring (RTM)

information relating to an LU (Type 2). Each entry

corresponds to an LU 2 entry in

snaLuAdminTable."

::= { snaMgtTools 1 }

snaLuRtmEntry OBJECT-TYPE

SYNTAX SnaLuRtmEntry

MAX-ACCESS not-accessible



STATUS current  
DESCRIPTION  
"Contains RTM information for an LU (Type 2).  
Each entry is created by the Agent."  
INDEX { snaLuRtmPuIndex, snaLuRtmLuIndex }  
::= { snaLuRtmTable 1 }

```
SnaLuRtmEntry ::= SEQUENCE {  
    snaLuRtmPuIndex  
        Integer32,  
    snaLuRtmLuIndex  
        Integer32,  
    snaLuRtmState  
        INTEGER,  
    snaLuRtmStateTime  
        TimeStamp,  
    snaLuRtmDef  
        INTEGER,  
    snaLuRtmBoundary1  
        Integer32,  
    snaLuRtmBoundary2  
        Integer32,  
    snaLuRtmBoundary3  
        Integer32,  
    snaLuRtmBoundary4  
        Integer32,  
    snaLuRtmCounter1  
        Counter32,  
    snaLuRtmCounter2  
        Counter32,  
    snaLuRtmCounter3  
        Counter32,  
    snaLuRtmCounter4  
        Counter32,  
    snaLuRtmOverFlows  
        Counter32,  
    snaLuRtmObjPercent  
        Integer32,  
    snaLuRtmObjRange  
        INTEGER,  
    snaLuRtmNumTrans  
        Integer32,  
    snaLuRtmLastRspTime  
        Integer32,  
    snaLuRtmAvgRspTime  
        Integer32  
}
```

snaLuRtmPuIndex OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value identifies the PU 2.0 with which this LU is associated."

::= { snaLuRtmEntry 1 }

snaLuRtmLuIndex OBJECT-TYPE

SYNTAX

Integer32

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The value uniquely identifies an LU in a PU 2.0."

::= { snaLuRtmEntry 2 }

snaLuRtmState OBJECT-TYPE

SYNTAX INTEGER {

off(1),

on(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value indicates the current RTM state of an LU."

::= { snaLuRtmEntry 3 }

snaLuRtmStateTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The timestamp (e.g., the Agent's sysUpTime value) when this session's RTM state (e.g., snaLuRtmState) changes value."

::= { snaLuRtmEntry 4 }

snaLuRtmDef OBJECT-TYPE

SYNTAX INTEGER {

firstChar(1),

kb(2),

cdeb(3)

}

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The value indicates the mode of measurement for this  
RTM request. The values have following meaning:  
firstChar(1) - time to first character on screen  
kb(2) - time to keyboard usable by operator  
cdeb(3) - time to Change Direction/End Bracket."  
::= { snaLuRtmEntry 5 }

snaLuRtmBoundary1 OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object contains the value of the first boundary  
in units of 1/10th of a second."  
::= { snaLuRtmEntry 6 }

snaLuRtmBoundary2 OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object contains the value of the second boundary  
in units of 1/10th of a second."  
::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object contains the value of the third boundary  
in units of 1/10th of a second."  
::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This object contains the value of the fourth boundary  
in units of 1/10th of a second."  
::= { snaLuRtmEntry 9 }

snaLuRtmCounter1 OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"This value indicates the number of transactions which  
fall in the range specified by the first boundary."  
::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This value indicates  
the number of transactions which  
fall in the range specified by the second boundary."  
::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This value indicates the number of transactions which  
fall in the range specified by the third boundary."  
::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This value indicates the number of transactions which  
fall in the range specified by the fourth boundary."  
::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"This value indicates the number of transactions which  
exceed the highest range specified by  
the  
boundaries."  
::= { snaLuRtmEntry 14 }

snaLuRtmObjPercent OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the desired percentage of transactions which should be under a designated boundary range indicated by snaLuRtmObjRange."

::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE

SYNTAX INTEGER {

other(1),  
range1(2),  
range2(3),  
range3(4),  
range4(5),  
range5(6)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the designated boundary range to which the snaLuRtmObject refers.

The values have the following meanings:

other(1) - not specified  
range1(2) - less than boundary

1

range2(3) - between boundary 1 and 2  
range3(4) - between boundary 2 and 3  
range4(5) - between boundary 3 and 4  
range5(6) - greater than boundary 4."

::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the total number of transactions executed since the RTM monitoring began (i.e., snaLuRtmState changed to 'on(2)') for this LU."

::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This value indicates the response time for the last transaction in units of 1/10th of a second."

```

 ::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "This value indicates the average response time for all
        transactions in units of 1/10th of a second."
 ::= { snaLuRtmEntry 19 }

-- *****
-- Conformance information
-- *****

snanauConformance    OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances    OBJECT IDENTIFIER ::= { snanauConformance 1 }
snanauGroups         OBJECT IDENTIFIER ::= { snanauConformance 2 }

-- Compliance statements
snanauCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "The compliance statement for the SNMPv2 entities
        which implement the snanau MIB."
    MODULE -- this module

-- Unconditionally mandatory groups
    MANDATORY-GROUPS { snaNodeGroup,
        snaLuGroup,
        snaSessionGroup
    }

-- Conditionally mandatory groups
    GROUP snaPu20Group
    DESCRIPTION
        "The snaPu20Group is mandatory only for those
        entities which implement PU type 2.0"
    GROUP snaMgtToolsRtmGroup
    DESCRIPTION
        "The snaMgtToolsGroup is mandatory only for
        those entities which implement LU type 2
        and RTM."

-- Refinement of requirements for objects access.
-- The Agent which does not implement row creation for

```

- snaNodeAdminTable, snaNodeLinkAdminTable and
- snaLuAdminTable must at least accept
- objects modification (read-write access instead of
- read-create).

OBJECT snaNodeAdminName  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminType  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminXidFormat  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminBlockNum  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminIdNum  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminEnablingMethod  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminLuTermDefault  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaNodeAdminMaxLu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminHostDescription

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminStopMethod

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeAdminState

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeLinkAdminSpecific

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaNodeLinkAdminMaxPiu

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."

OBJECT snaLuAdminSnaName

MIN-ACCESS read-write

DESCRIPTION

"An Agent is required to implement read-write access to this object."



OBJECT snaLuAdminType  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaLuAdminDepType  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaLuAdminLocalAddress  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaLuAdminDisplayModel  
MIN-ACCESS  
read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

OBJECT snaLuAdminTerm  
MIN-ACCESS read-write  
DESCRIPTION  
"An Agent is required to implement read-write  
access to this object."

::= { snanauCompliances 1 }

-- Units of conformance

snaNodeGroup OBJECT-GROUP  
OBJECTS { snaNodeAdminName,  
snaNodeAdminType,  
snaNodeAdminXidFormat,  
snaNodeAdminBlockNum,  
snaNodeAdminIdNum,  
snaNodeAdminEnablingMethod,  
snaNodeAdminLuTermDefault,  
snaNodeAdminMaxLu,  
snaNodeAdminHostDescription,  
snaNodeAdminStopMethod,  
snaNodeAdminState,

```

snaNodeAdminRowStatus,
snaNodeAdminTableLastChange,
snaNodeOperName,
  snaNodeOperType,
snaNodeOperXidFormat,
snaNodeOperBlockNum,
snaNodeOperIdNum,
snaNodeOperEnablingMethod,
snaNodeOperLuTermDefault,
snaNodeOperMaxLu,
snaNodeOperHostDescription,
snaNodeOperStopMethod,
snaNodeOperState,
snaNodeOperHostSscpId,
snaNodeOperStartTime,
snaNodeOperLastStateChange,
snaNodeOperActFailures,
snaNodeOperActFailureReason,
snaNodeOperTableLastChange,
snaNodeLinkAdminSpecific,
snaNodeLinkAdminMaxPiu,
snaNodeLinkAdminRowStatus,
snaNodeLinkAdminTableLastChange,
snaNodeLinkOperSpecific,
snaNodeLinkOperMaxPiu,
snaNodeLinkOperTableLastChange }
STATUS current
DESCRIPTION

```

"A collection of objects providing the instrumentation of SNA nodes."  
 ::= { snanauGroups 1 }

```

snaLuGroup OBJECT-GROUP
OBJECTS { snaLuAdminName,
  snaLuAdminSnaName,
  snaLuAdminType,
  snaLuAdminDepType,
  snaLuAdminLocalAddress,
  snaLuAdminDisplayModel,
  snaLuAdminTerm,
  snaLuAdminRowStatus,
  snaLuOperName,
  snaLuOperSnaName,
  snaLuOperType,
  snaLuOperDepType,
  snaLuOperLocalAddress,
  snaLuOperDisplayModel,

```

```
snaLuOperTerm,
snaLuOperState,
snaLuOperSessnCount }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of SNA LUs."
::= { snanauGroups 2 }
```

snaSessionGroup OBJECT-GROUP

```
OBJECTS { snaLuSessnRluIndex,
```

```
snaLuSessnIndex,
    snaLuSessnLocalApplName,
    snaLuSessnRemoteLuName,
    snaLuSessnMaxSndRuSize,
    snaLuSessnMaxRcvRuSize,
    snaLuSessnSndPacingSize,
    snaLuSessnRcvPacingSize,
    snaLuSessnActiveTime,
    snaLuSessnAdminState,
    snaLuSessnOperState,
    snaLuSessnSenseData,
    snaLuSessnTerminationRu,
    snaLuSessnUnbindType,
    snaLuSessnLinkIndex,
    snaLuSessnStatsSentBytes,
    snaLuSessnStatsReceivedBytes,
    snaLuSessnStatsSentRus,
    snaLuSessnStatsReceivedRus,
    snaLuSessnStatsSentNegativeResps,
    snaLuSessnStatsReceivedNegativeResps }
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "A collection of objects providing the
    instrumentation of SNA sessions."
```

```
::= { snanauGroups 3 }
```

snaPu20Group

OBJECT-GROUP

```
OBJECTS { snaPu20StatsSentBytes,
    snaPu20StatsReceivedBytes,
    snaPu20StatsSentPius,
    snaPu20StatsReceivedPius,
    snaPu20StatsSentNegativeResps,
    snaPu20StatsReceivedNegativeResps,
    snaPu20StatsActLus,
    snaPu20StatsInActLus,
```

```

        snaPu20StatsBindLus }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of PU 2.0."
 ::= { snanauGroups 4 }

snaMgtToolsRtmGroup OBJECT-GROUP
OBJECTS { snaLuRtmState,
          snaLuRtmStateTime,
          snaLuRtmDef,
          snaLuRtmBoundary1,
          snaLuRtmBoundary2,
          snaLuRtmBoundary3,
          snaLuRtmBoundary4,
          snaLuRtmCounter1,
          snaLuRtmCounter2,
          snaLuRtmCounter3,
          snaLuRtmCounter4,
          snaLuRtmOverFlows,
          snaLuRtmObjPercent,
          snaLuRtmObjRange,
          snaLuRtmNumTrans,
          snaLuRtmLastRspTime,
          snaLuRtmAvgRspTime }
STATUS current
DESCRIPTION
    "A collection of objects providing the
    instrumentation of RTM for SNA LU 2.0."
 ::= { snanauGroups 5 }

-- end of conformance statement

```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-MIB

No license file was found, but licenses were detected in source scan.

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,  
TimeTicks, Counter32, snmpModules, mib-2

FROM SNMPv2-SMI

DisplayString, TestAndIncr, TimeStamp

FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP  
FROM SNMPv2-CONF;

snmpMIB MODULE-IDENTITY

LAST-UPDATED "200210160000Z"  
ORGANIZATION "IETF SNMPv3 Working Group"  
CONTACT-INFO

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DESCRIPTION

"The MIB module for SNMP entities.

Copyright (C) The Internet Society (2002). This  
version of this MIB module is part of RFC 3418;  
see the RFC itself for full legal notices.

"

REVISION "200210160000Z"

DESCRIPTION

"This revision of this MIB module was published as  
RFC 3418."  
REVISION "199511090000Z"  
DESCRIPTION

"This revision of this MIB module was published as  
RFC 1907."  
REVISION "199304010000Z"  
DESCRIPTION

"The initial revision of this MIB module was published  
as RFC 1450."  
::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

-- ::= { snmpMIBObjects 1 } this OID is obsolete  
-- ::= { snmpMIBObjects 2 } this OID is obsolete  
-- ::= { snmpMIBObjects 3 } this OID is obsolete

-- the System group

--

-- a collection of objects common to all managed systems.

system OBJECT IDENTIFIER ::= { mib-2 1 }

sysDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual description of the entity. This value should  
include the full name and version identification of  
the system's hardware type, software operating-system,  
and networking software."

::= { system 1 }

sysObjectID

OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The vendor's authoritative identification of the  
network management subsystem contained in the entity.  
This value is allocated within the SMI enterprises

subtree (1.3.6.1.4.1) and provides an easy and unambiguous means for determining 'what kind of box' is being managed. For example, if vendor 'Flintstones, Inc.' was assigned the subtree 1.3.6.1.4.1.424242, it could assign the identifier 1.3.6.1.4.1.424242.1.1 to its 'Fred Router'."

```
::= { system 2 }
```

#### sysUpTime OBJECT-TYPE

SYNTAX TimeTicks

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time (in hundredths of a second) since the network management portion of the system was last re-initialized."

```
::= { system 3 }
```

#### sysContact OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The textual identification of the contact person for this managed node, together with information on how to contact this person. If no contact information is known, the value is the zero-length string."

```
::= { system 4 }
```

#### sysName OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name. If the name is unknown, the value is the zero-length string."

```
::= { system 5 }
```

#### sysLocation OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The physical location of this node (e.g., 'telephone closet, 3rd floor'). If the location is unknown, the value is the zero-length string."  
 ::= { system 6 }

sysServices OBJECT-TYPE

SYNTAX INTEGER (0..127)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A value which indicates the set of services that this entity may potentially offer. The value is a sum.

This sum initially takes the value zero. Then, for each layer, L, in the range 1 through 7, that this node performs transactions for, 2 raised to (L - 1) is added to the sum. For example, a node which performs only routing functions would have a value of 4 ( $2^{(3-1)}$ ). In contrast, a node which is a host offering application services would have a value of 72 ( $2^{(4-1)} + 2^{(7-1)}$ ). Note that in the context of the Internet suite of protocols, values should be calculated accordingly:

| layer | functionality                          |
|-------|----------------------------------------|
| 1     | physical (e.g., repeaters)             |
| 2     | datalink/subnetwork (e.g., bridges)    |
| 3     | internet (e.g., supports the IP)       |
| 4     | end-to-end (e.g., supports the TCP)    |
| 7     | applications (e.g., supports the SMTP) |

For systems including OSI protocols, layers 5 and 6 may also be counted."

::= { system 7 }

-- object resource information

--

-- a collection of objects which describe the SNMP entity's  
-- (statically and dynamically configurable) support of  
-- various MIB modules.

sysORLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION



"The value of sysUpTime at the time of the most recent change in state or value of any instance of sysORID."  
 ::= { system 8 }

sysORTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the capabilities of the local SNMP application acting as a command responder with respect to various MIB modules. SNMP entities having dynamically-configurable support of MIB modules will have a dynamically-varying number of conceptual rows."

::= { system 9 }

sysOREntry OBJECT-TYPE

SYNTAX SysOREntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) in the sysORTable."

INDEX { sysORIndex }

::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {

sysORIndex INTEGER,

sysORID OBJECT IDENTIFIER,

sysORDescr DisplayString,

sysORUpTime TimeStamp

}

sysORIndex OBJECT-TYPE

SYNTAX INTEGER (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The auxiliary variable used for identifying instances of the columnar objects in the sysORTable."

::= { sysOREntry 1 }

sysORID OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"An authoritative identification of a capabilities statement with respect to various MIB modules supported by the local SNMP application acting as a command responder."  
::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"A textual description of the capabilities identified by the corresponding instance of sysORID."  
::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE  
SYNTAX TimeStamp  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The value of sysUpTime at the time this conceptual row was last instantiated."  
::= { sysOREntry 4 }

-- the SNMP group  
--  
-- a collection of objects providing basic instrumentation and  
-- control of an SNMP entity.

snmp OBJECT IDENTIFIER ::= { mib-2 11 }

snmpInPkts OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The total number of messages delivered to the SNMP entity from the transport service."  
::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of SNMP messages which were delivered to the SNMP entity and were for an unsupported SNMP version."

::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which used an SNMP community name not known to said entity. Also, implementations which authenticate community-based SNMP messages using check(s) in addition to matching the community name (for example, by also checking whether the message originated from a transport address allowed to use a specified community name) MAY include in this value the number of messages which failed the additional check(s). It is strongly RECOMMENDED that

the documentation for any security model which is used to authenticate community-based SNMP messages specify the precise conditions that contribute to this value."

::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE

SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which represented an SNMP operation that was not allowed for the SNMP community named in the message. The precise conditions under which this counter is incremented (if at all) depend on how the SNMP entity implements its access control mechanism and how its applications interact with that access control mechanism. It is strongly RECOMMENDED that the documentation for any access control mechanism which is used to control access to and visibility of MIB instrumentation specify the

precise conditions that contribute to this value."  
 ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of ASN.1 or BER errors encountered by the SNMP entity when decoding received SNMP messages."

::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE

SYNTAX INTEGER { enabled(1), disabled(2) }

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Indicates whether the SNMP entity is permitted to generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a

Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of

```

        the request."
 ::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total number of Confirmed Class PDUs
        (such as GetRequest-PDUs, GetNextRequest-PDUs,
        GetBulkRequest-PDUs, SetRequest-PDUs, and
        InformRequest-PDUs) delivered to the SNMP entity which
        were silently dropped because the transmission of
        the (possibly translated) message to a proxy target
        failed in a manner (other than a time-out) such that
        no Response Class PDU (such as a Response-PDU) could
        be returned."
 ::= { snmp 32 }

-- information for notifications
--
-- a collection of objects which allow the SNMP entity, when
-- supporting a notification
-- originator application,
-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap    OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE
    SYNTAX      OBJECT IDENTIFIER
    MAX-ACCESS  accessible-for-notify
    STATUS      current
    DESCRIPTION

        "The authoritative identification of the notification
        currently being sent. This variable occurs as
        the second varbind in every SNMPv2-Trap-PDU and
        InformRequest-PDU."
 ::= { snmpTrap 1 }

-- ::= { snmpTrap 2 } this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
    SYNTAX      OBJECT IDENTIFIER
    MAX-ACCESS  accessible-for-notify
    STATUS      current

```

DESCRIPTION

"The authoritative identification of the enterprise associated with the trap currently being sent. When an SNMP proxy agent is mapping an RFC1157 Trap-PDU into a SNMPv2-Trap-PDU, this variable occurs as the last varbind."

::= { snmpTrap  
3 }

-- ::= { snmpTrap 4 } this OID is obsolete

-- well-known traps

snmpTraps OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A coldStart trap signifies that the SNMP entity, supporting a notification originator application, is reinitializing itself and that its configuration may have been altered."

::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"A warmStart trap signifies that the SNMP entity, supporting a notification originator application, is reinitializing itself such that its configuration is unaltered."

::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }

-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }

-- are defined in RFC 2863 [RFC2863]

authenticationFailure NOTIFICATION-TYPE

STATUS current

DESCRIPTION

"An

authenticationFailure trap signifies that the SNMP entity has received a protocol message that is not properly authenticated. While all implementations of SNMP entities MAY be capable of generating this

```

        trap, the snmpEnableAuthenTraps object indicates
        whether this trap will be generated."
 ::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined
-- as { snmpTraps 6 } in RFC 1213

-- the set group
--
-- a collection of objects which allow several cooperating
-- command generator applications to coordinate their use of the
-- set operation.

snmpSet    OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE
    SYNTAX    TestAndIncr
    MAX-ACCESS read-write
    STATUS    current
    DESCRIPTION
        "An advisory lock used to allow several cooperating
        command generator applications to coordinate their
        use of the SNMP set operation.

        This
        object is used for coarse-grain coordination.
        To achieve fine-grain coordination, one or more similar
        objects might be defined within each MIB group, as
        appropriate."
 ::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
    OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
    OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

-- compliance statements

-- ::= { snmpMIBCompliances 1 }    this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated

```

DESCRIPTION

"The compliance statement for SNMPv2 entities which implement the SNMPv2 MIB.

This compliance statement is replaced by snmpBasicComplianceRev2."

MODULE -- this module

MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup, snmpBasicNotificationsGroup }

GROUP snmpCommunityGroup

DESCRIPTION

"This group is mandatory for SNMPv2 entities which support community-based authentication."

::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities which implement this MIB module."

MODULE -- this module

MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup, snmpBasicNotificationsGroup }

GROUP snmpCommunityGroup

DESCRIPTION

"This group is mandatory for SNMP entities which support community-based authentication."

GROUP snmpWarmStartNotificationGroup

DESCRIPTION

"This group is mandatory for an SNMP entity which supports command responder applications, and is able to reinitialize itself such that its configuration is unaltered."

::= { snmpMIBCompliances  
3 }

-- units of conformance

-- ::= { snmpMIBGroups 1 }      this OID is obsolete  
-- ::= { snmpMIBGroups 2 }      this OID is obsolete  
-- ::= { snmpMIBGroups 3 }      this OID is obsolete



-- ::= { snmpMIBGroups 4 }      this OID is obsolete

snmpGroup OBJECT-GROUP

OBJECTS { snmpInPkts,  
          snmpInBadVersions,  
          snmpInASNParseErrs,  
          snmpSilentDrops,  
          snmpProxyDrops,  
          snmpEnableAuthenTraps }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation  
and control of an SNMP entity."

::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP

OBJECTS { snmpInBadCommunityNames,  
          snmpInBadCommunityUses }

STATUS current

DESCRIPTION

"A collection of objects providing basic instrumentation  
of a SNMP entity which supports community-based  
authentication."

::= { snmpMIBGroups 9 }

snmpSetGroup

OBJECT-GROUP

OBJECTS { snmpSetSerialNo }

STATUS current

DESCRIPTION

"A collection of objects which allow several cooperating  
command generator applications to coordinate their  
use of the set operation."

::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP

OBJECTS { sysDescr, sysObjectID, sysUpTime,  
          sysContact, sysName, sysLocation,  
          sysServices,  
          sysORLastChange, sysORID,  
          sysORUpTime, sysORDescr }

STATUS current

DESCRIPTION

"The system group defines objects which are common to all  
managed systems."

::= { snmpMIBGroups 6 }

snmpBasicNotificationsGroup NOTIFICATION-GROUP  
NOTIFICATIONS { coldStart, authenticationFailure }

STATUS current

DESCRIPTION

"The basic notifications implemented by an SNMP entity  
supporting command responder applications."

::= { snmpMIBGroups 7 }

snmpWarmStartNotificationGroup

NOTIFICATION-GROUP

NOTIFICATIONS { warmStart }

STATUS current

DESCRIPTION

"An additional notification for an SNMP entity supporting  
command responder applications, if it is able to reinitialize  
itself such that its configuration is unaltered."

::= { snmpMIBGroups 11 }

snmpNotificationGroup OBJECT-GROUP

OBJECTS { snmpTrapOID, snmpTrapEnterprise }

STATUS current

DESCRIPTION

"These objects are required for entities  
which support notification originator applications."

::= { snmpMIBGroups 12 }

-- definitions in RFC 1213 made obsolete by the inclusion of a  
-- subset of the snmp group in this MIB

snmpOutPkts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Messages which were  
passed from the SNMP protocol entity to the  
transport service."

::= { snmp 2 }

-- { snmp 7 } is not used

snmpInTooBig

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `tooBig'."

::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `noSuchName'."

::= { snmp 9 }

snmpInBadValues OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `badValue'."

::= { snmp 10 }

snmpInReadOnlys

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number valid SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `readOnly'. It should be noted that it is a protocol error to generate an SNMP PDU which contains the value `readOnly' in the error-status field, as such this object is provided as a means of detecting incorrect implementations of the SNMP."

::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field was `genErr`."

::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs."

::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs."

::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity."

::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS

read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP Get-Next PDUs which have been  
    accepted and processed by the SNMP protocol entity."  
::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP Set-Request PDUs which  
    have been accepted and processed by the SNMP protocol  
    entity."  
::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP Get-Response PDUs which  
    have been accepted and processed by the SNMP protocol  
    entity."  
::= { snmp 18 }

snmpInTraps OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP Trap PDUs which have been  
    accepted and  
processed by the SNMP protocol entity."  
::= { snmp 19 }

snmpOutTooBig OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS obsolete  
DESCRIPTION  
    "The total number of SNMP PDUs which were generated  
    by the SNMP protocol entity and for which the value  
    of the error-status field was `tooBig.'"  
::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status was `noSuchName'."

::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field was `badValue'."

::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field was `genErr'."

::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity."

::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Set-Request PDUs which have been generated by the SNMP protocol entity."

::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity."

::= { snmp 28 }

snmpOutTraps OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS obsolete

DESCRIPTION

"The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity."

::= { snmp 29 }

snmpObsoleteGroup OBJECT-GROUP

OBJECTS { snmpOutPkts, snmpInTooBigs, snmpInNoSuchNames,  
snmpInBadValues, snmpInReadOnlys, snmpInGenErrs,  
snmpInTotalReqVars, snmpInTotalSetVars,  
snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,

snmpInGetResponses, snmpInTraps, snmpOutTooBigs,  
snmpOutNoSuchNames, snmpOutBadValues,  
snmpOutGenErrs, snmpOutGetRequests, snmpOutGetNexts,  
snmpOutSetRequests, snmpOutGetResponses, snmpOutTraps  
}

STATUS obsolete

DESCRIPTION

"A collection of objects from RFC 1213 made obsolete  
by this MIB module."

::= { snmpMIBGroups 10 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB

No license file was found, but licenses were detected in source scan.

RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,  
Counter32, Integer32, Gauge32,  
IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI  
SnmpAdminString FROM SNMP-FRAMEWORK-MIB  
InetAddressType, InetAddress,  
InetPortNumber FROM INET-ADDRESS-MIB  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

radiusAccClientMIB MODULE-IDENTITY

LAST-UPDATED "200608210000Z" -- 21 August 2006  
ORGANIZATION "IETF RADIUS Extensions Working Group."  
CONTACT-INFO

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Microsoft  
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Redmond, WA 98052  
US  
Phone: +1 425 936 6605  
EMail: bernarda@microsoft.com"

DESCRIPTION

"The MIB module for entities implementing the client  
side of the Remote

Authentication Dial-In User Service

(RADIUS) accounting protocol. Copyright (C) The  
Internet Society (2006). This version of this MIB  
module is part of RFC 4670; see the RFC itself for  
full legal notices."

REVISION "200608210000Z" -- 21 August 2006

DESCRIPTION



"Revised version as published in RFC 4670.  
This version obsoletes that of RFC 2620 by  
deprecating the MIB table containing IPv4-only  
address formats and defining a new table to add support  
for version-neutral IP address formats. The remaining  
MIB objects from RFC 2620 are carried forward into this  
version."

REVISION "199906110000Z" -- 11 Jun 1999

DESCRIPTION "Initial version as published in RFC 2620."

::= { radiusAccounting 2 }

radiusMIB OBJECT-IDENTITY

STATUS current

DESCRIPTION

"The OID assigned to RADIUS MIB work by the IANA."

::= { mib-2 67 }

radiusAccounting OBJECT IDENTIFIER ::= { radiusMIB 2 }

radiusAccClientMIBObjects OBJECT IDENTIFIER

::= { radiusAccClientMIB 1 }

radiusAccClient OBJECT IDENTIFIER

::= { radiusAccClientMIBObjects 1 }

radiusAccClientInvalidServerAddresses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets  
received from unknown addresses."

::= { radiusAccClient 1 }

radiusAccClientIdentifier OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The NAS-Identifier of the RADIUS accounting client.  
This is not necessarily the same as sysName in MIB  
II."

REFERENCE "RFC 2865 section 5.32"

::= { radiusAccClient 2 }

radiusAccServerTable OBJECT-TYPE  
 SYNTAX SEQUENCE OF RadiusAccServerEntry  
 MAX-ACCESS not-accessible  
 STATUS deprecated  
 DESCRIPTION  
 "The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."  
 ::= { radiusAccClient 3 }

radiusAccServerEntry OBJECT-TYPE  
 SYNTAX RadiusAccServerEntry  
 MAX-ACCESS not-accessible  
 STATUS deprecated  
 DESCRIPTION  
 "An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."  
 INDEX { radiusAccServerIndex }  
 ::= { radiusAccServerTable 1 }

RadiusAccServerEntry ::= SEQUENCE {  
 radiusAccServerIndex Integer32,  
 radiusAccServerAddress IpAddress,  
 radiusAccClientServerPortNumber Integer32,  
 radiusAccClientRoundTripTime TimeTicks,  
 radiusAccClientRequests Counter32,  
 radiusAccClientRetransmissions  
 Counter32,  
 radiusAccClientResponses Counter32,  
 radiusAccClientMalformedResponses Counter32,  
 radiusAccClientBadAuthenticators Counter32,  
 radiusAccClientPendingRequests Gauge32,  
 radiusAccClientTimeouts Counter32,  
 radiusAccClientUnknownTypes Counter32,  
 radiusAccClientPacketsDropped Counter32  
 }

radiusAccServerIndex OBJECT-TYPE  
 SYNTAX Integer32 (1..2147483647)  
 MAX-ACCESS not-accessible  
 STATUS deprecated  
 DESCRIPTION  
 "A number uniquely identifying each RADIUS

```

        Accounting server with which this client
        communicates."
 ::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE
    SYNTAX  IPAddress
    MAX-ACCESS read-only
    STATUS   deprecated
    DESCRIPTION
        "The IP address of the RADIUS accounting server

        referred to in this table entry."
 ::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber OBJECT-TYPE
    SYNTAX Integer32 (0..65535)
    MAX-ACCESS read-only
    STATUS   deprecated
    DESCRIPTION
        "The UDP port the client is using to send requests to
        this server."
    REFERENCE "RFC 2866 section 3"
 ::= { radiusAccServerEntry 3 }

radiusAccClientRoundTripTime OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS   deprecated
    DESCRIPTION
        "The time interval between the most recent
        Accounting-Response and the Accounting-Request that
        matched it from this RADIUS accounting server."
    REFERENCE "RFC 2866 section 2"
 ::= { radiusAccServerEntry 4 }

-- Request/Response statistics
--
-- Requests = Responses + PendingRequests + ClientTimeouts
--
-- Responses - MalformedResponses - BadAuthenticators -
-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientRequests

```

OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent. This does not include retransmissions."

REFERENCE "RFC 2866 section 4.1"

::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 6 }

radiusAccClientResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 8 }

radiusAccClientBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid

authenticators

received from this server."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerEntry 9 }

radiusAccClientPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout, or a retransmission."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 10 }

radiusAccClientTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of accounting timeouts to this server.

After a timeout, the client may retry to the same

server, send to a different server, or give up.

A retry to the same server is counted as a retransmit as well as a timeout. A send to a different server is counted as an Accounting-Request as well as a timeout."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerEntry 11 }

radiusAccClientUnknownTypes OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerEntry 12 }

radiusAccClientPacketsDropped OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The number of RADIUS packets that were received from this server on the accounting port and dropped for some

other reason."

::= { radiusAccServerEntry 13 }

-- New MIB objects added in this revision

radiusAccServerExtTable OBJECT-TYPE

SYNTAX SEQUENCE OF RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The (conceptual) table listing the RADIUS accounting servers with which the client shares a secret."

::= { radiusAccClient 4 }

radiusAccServerExtEntry OBJECT-TYPE

SYNTAX RadiusAccServerExtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry (conceptual row) representing a RADIUS accounting server with which the client shares a secret."

```
INDEX { radiusAccServerExtIndex }
::= { radiusAccServerExtTable 1 }
```

```
RadiusAccServerExtEntry ::= SEQUENCE {
    radiusAccServerExtIndex      Integer32,
    radiusAccServerInetAddressType  InetAddressType,
    radiusAccServerInetAddress
        InetAddress,
    radiusAccClientServerInetPortNumber  InetPortNumber,
    radiusAccClientExtRoundTripTime      TimeTicks,

    radiusAccClientExtRequests          Counter32,
    radiusAccClientExtRetransmissions    Counter32,
    radiusAccClientExtResponses         Counter32,
    radiusAccClientExtMalformedResponses Counter32,
    radiusAccClientExtBadAuthenticators  Counter32,
    radiusAccClientExtPendingRequests    Gauge32,
    radiusAccClientExtTimeouts          Counter32,
    radiusAccClientExtUnknownTypes       Counter32,
    radiusAccClientExtPacketsDropped     Counter32,
    radiusAccClientCounterDiscontinuity  TimeTicks
}
```

```
radiusAccServerExtIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A number uniquely identifying each RADIUS
        Accounting server
        with which this client
        communicates."
    ::= { radiusAccServerExtEntry 1 }
```

```
radiusAccServerInetAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The type of address format used for the
        radiusAccServerInetAddress object."
    ::= { radiusAccServerExtEntry 2 }
```

```
radiusAccServerInetAddress OBJECT-TYPE
```

SYNTAX InetAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The IP address of the RADIUS accounting  
    server referred to in this table entry, using  
    the version-neutral IP address format."  
 ::= { radiusAccServerExtEntry 3 }

radiusAccClientServerInetPortNumber OBJECT-TYPE  
SYNTAX InetPortNumber ( 1..65535 )  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

    "The UDP port the client is using  
to send requests  
    to this accounting server. The value zero (0) is  
    invalid."  
REFERENCE "RFC 2866 section 3"  
 ::= { radiusAccServerExtEntry 4 }

radiusAccClientExtRoundTripTime OBJECT-TYPE  
SYNTAX TimeTicks  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
    "The time interval between the most recent  
    Accounting-Response and the Accounting-Request that  
    matched it from this RADIUS accounting server."  
REFERENCE "RFC 2866 section 2"  
 ::= { radiusAccServerExtEntry 5 }

-- Request/Response statistics  
--  
-- Requests = Responses + PendingRequests + ClientTimeouts  
--  
-- Responses - MalformedResponses - BadAuthenticators -  
-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientExtRequests OBJECT-TYPE  
SYNTAX Counter32  
UNITS "packets"  
MAX-ACCESS read-only  
STATUS current



DESCRIPTION

"The number of RADIUS Accounting-Request packets

sent. This does not include retransmissions.

This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.1"

::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets retransmitted to this RADIUS accounting server.

Retransmissions include retries where the Identifier and Acct-Delay have been updated, as well as those in which they remain the same. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed

entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 7 }

radiusAccClientExtResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets received on the accounting port from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4.2"

::= { radiusAccServerExtEntry 8 }

radiusAccClientExtMalformedResponses OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of malformed RADIUS Accounting-Response packets received from this server. Malformed packets include packets with an invalid length. Bad authenticators and unknown types are not included as malformed accounting responses. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 9 }

radiusAccClientExtBadAuthenticators OBJECT-TYPE

SYNTAX Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Response packets that contained invalid authenticators received from this server. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 3"

::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE

SYNTAX Gauge32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS Accounting-Request packets sent to this server that have not yet timed out or received a response. This variable is incremented

when an Accounting-Request is sent and decremented due to receipt of an Accounting-Response, a timeout, or a retransmission. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE

SYNTAX Counter32

UNITS "timeouts"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of accounting timeouts to this server.

After a timeout, the client may retry to the same server, send to a different server, or give up.

A retry to the same server is counted as a retransmit as well as a timeout. A send to a different server is counted as an Accounting-Request as well as a timeout. This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 2"

::= { radiusAccServerExtEntry 12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE

SYNTAX

Counter32

UNITS "packets"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of RADIUS packets of unknown type that were received from this server on the accounting port.

This counter may experience a discontinuity when the RADIUS Accounting Client module within the managed entity is reinitialized, as indicated by the current value of radiusAccClientCounterDiscontinuity."

REFERENCE "RFC 2866 section 4"

::= { radiusAccServerExtEntry 13 }

radiusAccClientExtPacketsDropped OBJECT-TYPE  
SYNTAX Counter32  
UNITS "packets"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of RADIUS packets that were received from  
this server on the accounting port and dropped for some  
other reason. This counter may experience a  
discontinuity when the RADIUS Accounting Client module  
within  
the managed entity is reinitialized, as indicated  
by the current value of  
radiusAccClientCounterDiscontinuity."  
::= { radiusAccServerExtEntry 14 }

radiusAccClientCounterDiscontinuity OBJECT-TYPE  
SYNTAX TimeTicks  
UNITS "centiseconds"  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The number of centiseconds since the last  
discontinuity in the RADIUS Accounting Client  
counters. A discontinuity may be the result of a  
reinitialization of the RADIUS Accounting Client  
module within the managed entity."  
::= { radiusAccServerExtEntry 15 }

-- conformance information

radiusAccClientMIBConformance OBJECT IDENTIFIER  
::= { radiusAccClientMIB 2 }

radiusAccClientMIBCompliances OBJECT IDENTIFIER  
::= { radiusAccClientMIBConformance 1 }

radiusAccClientMIBGroups OBJECT IDENTIFIER  
::= { radiusAccClientMIBConformance  
2 }

-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE

STATUS deprecated

DESCRIPTION

"The compliance statement for accounting clients implementing the RADIUS Accounting Client MIB. Implementation of this module is for IPv4-only entities, or for backwards compatibility use with entities that support both IPv4 and IPv6."

MODULE -- this module

MANDATORY-GROUPS { radiusAccClientMIBGroup }

::= { radiusAccClientMIBCompliances 1 }

radiusAccClientExtMIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for accounting clients implementing the RADIUS Accounting Client IPv6 Extensions MIB. Implementation of this module is for entities that support IPv6, or support IPv4 and IPv6."

MODULE -- this module

MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

OBJECT

radiusAccServerInetAddressType

SYNTAX InetAddressType { ipv4(1), ipv6(2) }

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT radiusAccServerInetAddress

SYNTAX InetAddress ( SIZE (4|16) )

DESCRIPTION

"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

::= { radiusAccClientMIBCompliances 2 }

-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP

```
OBJECTS { radiusAccClientIdentifier,  
          radiusAccClientInvalidServerAddresses,  
          radiusAccServerAddress,  
          radiusAccClientServerPortNumber,  
          radiusAccClientRoundTripTime,  
          radiusAccClientRequests,  
          radiusAccClientRetransmissions,  
          radiusAccClientResponses,  
          radiusAccClientMalformedResponses,  
          radiusAccClientBadAuthenticators,  
  
          radiusAccClientPendingRequests,  
          radiusAccClientTimeouts,  
          radiusAccClientUnknownTypes,  
          radiusAccClientPacketsDropped  
}
```

STATUS deprecated

DESCRIPTION

"The basic collection of objects providing management of  
RADIUS Accounting Clients."

::= { radiusAccClientMIBGroups 1 }

radiusAccClientExtMIBGroup OBJECT-GROUP

```
OBJECTS { radiusAccClientIdentifier,  
          radiusAccClientInvalidServerAddresses,  
          radiusAccServerInetAddressType,  
          radiusAccServerInetAddress,  
          radiusAccClientServerInetPortNumber,  
          radiusAccClientExtRoundTripTime,  
          radiusAccClientExtRequests,  
          radiusAccClientExtRetransmissions,  
          radiusAccClientExtResponses,  
          radiusAccClientExtMalformedResponses,  
          radiusAccClientExtBadAuthenticators,  
          radiusAccClientExtPendingRequests,  
  
          radiusAccClientExtTimeouts,  
          radiusAccClientExtUnknownTypes,  
          radiusAccClientExtPacketsDropped,  
          radiusAccClientCounterDiscontinuity  
}
```

STATUS current

DESCRIPTION

```
"The basic collection of objects providing management of
RADIUS Accounting Clients."
::= { radiusAccClientMIBGroups 2 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RADIUS-
ACC-CLIENT-MIB
```

No license file was found, but licenses were detected in source scan.

DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY,
OBJECT-TYPE,
IpAddress,
Unsigned32,
Counter32,
Integer32,
zeroDotZero,
mib-2
    FROM SNMPv2-SMI      -- RFC 2578
RowStatus,
RowPointer,
DateAndTime,
TruthValue,
StorageType
    FROM SNMPv2-TC      -- RFC 2579
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB -- RFC 4001
OBJECT-GROUP,
MODULE-COMPLIANCE
    FROM SNMPv2-CONF    -- RFC 2580
SnmAdminString
    FROM SNMP-FRAMEWORK-MIB -- RFC 3411
InterfaceIndexOrZero
    FROM IF-MIB         -- RFC 2863
ZeroBasedCounter32
    FROM RMON2-MIB      -- RFC 4502
diffServMIBDataPathGroup,
diffServMIBClfrGroup,

diffServMIBClfrElementGroup,
diffServMIBMultiFieldClfrGroup,
diffServMIBActionGroup,
```

diffServMIBDscpMarkActGroup,  
diffServMIBCounterGroup,  
diffServMIBAlgDropGroup,

diffServDataPathStatus,  
diffServClfrStatus,  
diffServClfrElementStatus,  
diffServMultiFieldClfrAddrType,  
diffServMultiFieldClfrSrcAddr,  
diffServMultiFieldClfrDstAddr,  
diffServAlgDropStatus,  
diffServDataPathStorage,  
diffServClfrStorage,  
diffServClfrElementStorage,  
diffServMultiFieldClfrStorage,  
diffServActionStorage,  
diffServCountActStorage,  
diffServAlgDropStorage,  
diffServAlgDropType  
FROM DIFFSERV-MIB; -- RFC 3289

docsDev MODULE-IDENTITY

LAST-UPDATED "200612200000Z" -- December 20, 2006  
ORGANIZATION "IETF IP over Cable Data Network  
Working Group"

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Jean-Francois Mule,  
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#### DESCRIPTION

"This is the MIB Module for DOCSIS-compliant cable modems

and cable-modem  
termination systems.

Copyright (C) The IETF Trust (2006). This version  
of this MIB module was published in RFC 4639; for full  
legal notices see the RFC itself."

REVISION "200612200000Z" -- December 20, 2006

#### DESCRIPTION

"Second version, published as RFC 4639.

Modifications to this MIB module since RFC 2669 include:

- Deprecation of the docsDevFilter group in favor of the DiffServ MIB groups, to enable support for IPv6 filtering and DiffServ Code Point (DSCP) marking.
- Deprecation of the docsDevCpeGroup in favor of the docsDevCpeInetGroup, to enable support of IPv6.
- Addition of various InetAddress objects to enable support of IPv6.
- Deprecation of docsDevNmAccessTable in favor of SNMP Coexistence and SNMPv3 -- yet adding docsDevNmAccessTrapVersion and clarifying docsDevNmAccessIp for current use of this table,
- Addition of docsDevIgmpModeControl for management and control of the IGMP mode of operation,
- Addition of docsDevMaxCpe for management of the maximum number of CPEs permitted access through a cable modem,
- Addition of docsDevSwServerTransportProtocol, and modifications to docsDevSoftware object DESCRIPTIONS, to enable software downloads via either TFTP or HTTP,
- Replacement of docsDevEvThrottleInhibited with docsDevEvThrottleThresholdExceeded to simplify event threshold management,
- Modification of docsDevEvReporting to enable local logging to the internal volatile log, and not to the internal non-volatile log,
- Modification of the compliance statement to make the

- docsDevCpe objects optional
- Created placeholders for two OIDs in the docsDevFilterPolicyTable that were never used
- Modified the DESCRIPTION of docsDevSwServerTransportProtocol and docsDevSwServerAddressType to address the dependence between each object
- Added a reference to docsDevServerConfigTftpAddress
- Clarified the scope of notifications that are covered by docsDevEvThrottleThreshold
- Clarified an error condition that could occur when

- doing a SET to docsDevEvReporting
- Defined each of the enumerated types for both docsDevEvLevel and docsDevEvPriority
- Added UNITS clause to docsDevFilterLLCMatches, docsDevFilterIpMatches, docsDevMaxCpe, docsDevEvThrottleThreshold and docsDevEvCounts.
- Added REFERENCE clause to docsDevFilterIpProtocol
- Modified DESCRIPTION

of docsDevCpeInetAddr to be

- more protocol-neutral
- Removed the enumerated value (1) from both docsDevCpeInetSource and docsDevCpeSource
- Covered additional read-write and read-create objects in the Security Considerations section
- Modified the default value of docsDevNmAccessIpMask to be consistent with OSSI specification
- Modified the SYNTAX of docsDevNmAccessCommunity and docsDevNmAccessInterfaces in the Conformance Statement section
- Added SYNTAX clause to docsDevEvReporting in the Conformance Statement section
- Modified SYNTAX clause of docsDevEvReporting to move new enumerated type to byte boundary
- Added references to DOCSIS 2.0 specifications to multiple objects
- Clarified non-persistency across reboots for all

tables

- Clarified functionality of docsDevSw objects as they relate to docsDevSwOperStatus
- Clarified enumerated types (9) and (10) for docsDevServerBootState
- Defined the state of unknown(0) for the following objects: docsDevServerDhcpAddressType,

```

docsDevServerTimeAddressType,
docsDevServerConfigTftpAddressType and
docsDevServerConfigTftpAddressType
- Modified the value in docsDevFilterIpDaddr to be
  consistent with the SYNTAX
- Specified which rows could be modified in an
  active row for docsDevFilterPolicyStatus
- Defined the term 'manually' in docsDevCpeEnroll
- Clarified the description for
  docsDevFilterTosOrMask
- Covered the case of a non-existent row for
  docsDevFilterPolicyPtr
- Added DEFVAL clauses for multiple
objects
- Replaced docsDevNotification OBJECT IDENTIFIER
  with docsDevNotifications to address possible
  compatibility issues

- Added support for the usage of RFC 3413 and RFC 3014
  as event notification mechanisms
- Removed docsDevFilterPolicyObsoleteGroup
- Added stdInterface(9) type to docsDevEvReporting to
  support the usage of RFC3413 and RFC3014
- Modified DESCRIPTION for docsDevMaxCpe"

REVISION "199908190000Z"
DESCRIPTION
  "Initial version, published as RFC 2669."

 ::= { mib-2 69 }

docsDevMIBObjects OBJECT IDENTIFIER ::= { docsDev 1 }

docsDevBase OBJECT IDENTIFIER ::= { docsDevMIBObjects 1 }

--
-- For the following object, there is no concept in the
-- RFI specification corresponding to a backup CMTS. The
-- enumeration is provided here in case someone is able
-- to define such a role or device.
--

docsDevRole OBJECT-TYPE
  SYNTAX INTEGER {
    cm(1),
    cmtsActive(2),

```

```

    cmtsBackup(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Defines the current role of this device. cm(1) is a
    Cable Modem, cmtsActive(2) is a Cable Modem Termination
    System that is controlling the system of cable modems,
    and cmtsBackup(3) is a CMTS that is currently connected
    but is not controlling the system (not currently used).

    In general, if this device is a 'cm', its role will not
    change during operation or between reboots. If the
    device is a 'cmts' it may change between cmtsActive and
    cmtsBackup and back again during normal operation. NB:
    At this time, the DOCSIS standards do not support the
    concept of a backup CMTS, but cmtsBackup is included for
    completeness."
::= { docsDevBase 1 }

```

```

docsDevDateTime
OBJECT-TYPE
    SYNTAX DateAndTime
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "The current date and time, with time zone information
        (if known).

        If the real data and time cannot be determined, this
        shall represent elapsed time from boot relative to
        the standard epoch '1970-1-1,0:0:0.0'. In other
        words, if this agent has been up for 3 minutes and
        not been able to determine what the actual date and
        time are, this object will return the value
        '1970-1-1,0:03:0.0'."
::= { docsDevBase 2 }

```

```

docsDevResetNow OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Setting this object to true(1) causes the device to
        reset. Reading this object always returns false(2)."
```

::= { docsDevBase 3 }

docsDevSerialNumber

OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The manufacturer's serial number for this device."

::= { docsDevBase 4 }

docsDevSTPControl OBJECT-TYPE

SYNTAX INTEGER {

stEnabled(1),

noStFilterBpdu(2),

noStPassBpdu(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls operation of the spanning tree protocol (as distinguished from transparent bridging).

If set to stEnabled(1), then the spanning tree protocol is enabled, subject to bridging constraints.

If noStFilterBpdu(2), then spanning tree is not active, and Bridge PDUs received are discarded.

If noStPassBpdu(3), then spanning tree is not active, and Bridge PDUs are transparently forwarded.

Note that a device need not implement all of these options, but that noStFilterBpdu(2) is required."

DEFVAL { noStFilterBpdu }

::= { docsDevBase 5 }

docsDevIgmpModeControl OBJECT-TYPE

SYNTAX INTEGER {

passive(1),

active(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object controls the IGMP mode of operation for the CM or CMTS. In passive mode, the device forwards IGMP between interfaces as based on knowledge of Multicast Session activity on the subscriber side interface and the rules defined in the DOCSIS RFI specification. In active mode, the device terminates at and initiates IGMP through its interfaces as based on the knowledge of Multicast Session activity on the subscriber side interface."

#### REFERENCE

"DOCSIS RFI 1.1 Specification, Section 3.3.1. and

DOCSIS RFI 2.0 Specification, Section 5.3.1."

DEFVAL { passive }

::= { docsDevBase 6 }

#### docsDevMaxCpe OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

UNITS "CPEs"

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The maximum number of CPEs that can be granted access through a CM during a CM epoch. This value can be obtained from the CM configuration file; however, it may be adjusted by the CM according to hardware or software limitations that have been imposed on the implementation."

#### REFERENCE

"DOCSIS RFI 1.0 Specification, Appendix C.7.20., and

DOCSIS RFI 1.1 Specification, Appendix C.1.1.7. and

DOCSIS RFI 2.0 Specification, Appendix C.1.1.7."

::= { docsDevBase 7 }

--

-- The following table provides one level of security for access  
-- to the device by network management stations.

--

Note that access is also constrained by the  
-- community strings and any vendor-specific security.

--

#### docsDevNmAccessTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevNmAccessEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This table controls access to SNMP objects by network management stations. If the table is empty, access to SNMP objects is unrestricted. The objects in this table MUST NOT persist across reboots. The objects in this table are only accessible from cable devices that are not capable of operating in SNMP Coexistence mode (RFC 3584) or in SNMPv3 mode (RFC 3410).

See the conformance section for details. Note that some devices are required by other specifications (e.g., the DOCSIS OSSIV1.1 specification) to support the legacy SNMPv1/v2c docsDevNmAccess mode for

backward compatibility.

This table is deprecated. Instead, use the SNMP coexistence MIBs from RFC 3584, the TARGET and NOTIFICATION MIBs from RFC 3413, and the View-Based Access Control Model (VACM) MIBs for all SNMP protocol versions from RFC 3415."

::= { docsDevMIBObjects 2 }

docsDevNmAccessEntry OBJECT-TYPE

SYNTAX DocsDevNmAccessEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry describing access to SNMP objects by a particular network management station. An entry in this table is not readable unless the management station has read-write permission (either implicit if the table is empty, or explicit through an entry in this table). Entries are ordered by docsDevNmAccessIndex. The first

matching entry (e.g., matching IP address and community

string) is used to derive access."

INDEX { docsDevNmAccessIndex }

::= { docsDevNmAccessTable 1 }

DocsDevNmAccessEntry ::= SEQUENCE {

docsDevNmAccessIndex Integer32,

docsDevNmAccessIp IpAddress,

docsDevNmAccessIpMask IpAddress,

```
docsDevNmAccessCommunity  OCTET STRING,  
docsDevNmAccessControl    INTEGER,  
docsDevNmAccessInterfaces  OCTET STRING,  
docsDevNmAccessStatus     RowStatus,  
docsDevNmAccessTrapVersion INTEGER  
}
```

docsDevNmAccessIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Index used to order the application of access  
entries."

::= { docsDevNmAccessEntry 1 }

docsDevNmAccessIp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP address (or subnet) of the network management  
station. The address 0.0.0.0 is defined to mean  
any Network Management Station (NMS). If traps are  
enabled for this entry, then the value must be the  
address of a specific device. Implementations MAY  
recognize 255.255.255.255 as equivalent to 0.0.0.0."

DEFVAL { '00000000'h }

::= { docsDevNmAccessEntry 2 }

docsDevNmAccessIpMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP subnet mask of the network management stations.  
If traps are enabled for this entry, then the value must  
be 0.0.0.0. Implementations MAY recognize  
255.255.255.255 as equivalent to 0.0.0.0."

DEFVAL { '00000000'h }

::= { docsDevNmAccessEntry 3 }

docsDevNmAccessCommunity OBJECT-TYPE

SYNTAX OCTET



## STRING

MAX-ACCESS read-create

STATUS deprecated

### DESCRIPTION

"The community string to be matched for access by this entry. If set to a zero-length string, then any community string will match. When read, this object SHOULD return a zero-length string."

DEFVAL { "public" }

::= { docsDevNmAccessEntry 4 }

## docsDevNmAccessControl OBJECT-TYPE

SYNTAX INTEGER {

none(1),

read(2),

readWrite(3),

roWithTraps(4),

rwWithTraps(5),

trapsOnly(6)

}

MAX-ACCESS read-create

STATUS deprecated

### DESCRIPTION

"Specifies the type of access allowed to this NMS. Setting this object to none(1) causes the table entry to be destroyed. Read(2) allows access by 'get' and 'get-next' PDUs. ReadWrite(3) allows access by 'set' as well.

RoWithtraps(4), rwWithTraps(5), and trapsOnly(6) control distribution of Trap PDUs transmitted by this device."

DEFVAL { read }

::= { docsDevNmAccessEntry 5 }

-- The syntax of the following object was copied from RFC 1493,

-- dot1dStaticAllowedToGoTo.

## docsDevNmAccessInterfaces OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS read-create

STATUS deprecated

### DESCRIPTION

"Specifies the set of interfaces from which requests from this NMS will be accepted. Each octet within the value of this object specifies a set of eight

interfaces, the first octet specifying ports 1 through 8, the second octet specifying interfaces 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered interface, and the least significant bit represents the highest numbered interface. Thus, each interface is represented by a single bit within the value of this object. If that bit has a value of '1' then that interface is included in the set.

Note that entries in this table apply only to link-layer interfaces (e.g., Ethernet and CATV MAC). Bits representing upstream and downstream channel interfaces **MUST NOT** be set to '1'.

Note that if bits corresponding to non-existing interfaces are set, the result is implementation specific.

Note that according to the DOCSIS OSSIV1.1 specification, when ifIndex '1' is included in the set, then this row applies to all CPE (customer-facing) interfaces.

The size of this object is the minimum required to represent all configured interfaces for this device."  
::= { docsDevNmAccessEntry 6 }

docsDevNmAccessStatus

OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Controls and reflects the status of rows in this table. Rows in this table may be created by either the create-and-go or create-and-wait paradigm. There is no restriction on changing values in a row of this table while the row is active.

The following objects **MUST** have valid values before this object can be set to active: docsDevNmAccessIp, docsDevNmAccessStatus, docsDevNmAccessIpMask, docsDevNmAccessCommunity, docsDevNmAccessControl, and docsDevNmAccessInterfaces."

::= { docsDevNmAccessEntry 7 }

```

docsDevNmAccessTrapVersion OBJECT-TYPE
    SYNTAX    INTEGER {

        disableSNMPv2trap(1),
        enableSNMPv2trap(2)
    }
    MAX-ACCESS read-create
    STATUS     deprecated
    DESCRIPTION
        "Specifies the TRAP version that is sent to this NMS.
        Setting this object to disableSNMPv2trap (1) causes the
        trap in SNMPv1 format to be sent to a particular NMS.
        Setting this object to enableSNMPv2trap (2) causes the
        trap in SNMPv2 format be sent to a particular NMS."
    DEFVAL { disableSNMPv2trap }
    ::= { docsDevNmAccessEntry 8 }

--
-- The following group describes control objects used for downloading
-- firmware to a cable device. Procedures for software download are
-- described in Section 3.2.1 of the RFC containing this MIB module.
--

docsDevSoftware OBJECT IDENTIFIER ::= { docsDevMIBObjects 3 }

docsDevSwServer OBJECT-TYPE
    SYNTAX    IpAddress
    MAX-ACCESS read-write
    STATUS     deprecated
    DESCRIPTION
        "The address of the TFTP server used for software
        upgrades. If the TFTP server is unknown or is a
        non-IPv4 address, return
        0.0.0.0.

        This object is deprecated. See docsDevSwServerAddress
        for its replacement. This object will have its value
        modified, given a valid SET to docsDevSwServerAddress."
    ::= { docsDevSoftware 1 }

docsDevSwFilename OBJECT-TYPE
    SYNTAX    SnmpAdminString (SIZE (0..64))
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
        "The filename of the software image to be downloaded via

```

TFTP, or the abs\_path (as defined in RFC 2616) of the software image to be downloaded via HTTP.

Unless set via SNMP, this is the filename or abs\_path specified by the provisioning server during the boot process that corresponds to the software version that

is desired for this device.

If unknown, the value of this object is the zero-length string."

```
::= { docsDevSoftware 2 }
```

docsDevSwAdminStatus OBJECT-TYPE

```
SYNTAX INTEGER {  
    upgradeFromMgt(1),  
    allowProvisioningUpgrade(2),  
    ignoreProvisioningUpgrade(3)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"If set to upgradeFromMgt(1), the device will initiate a TFTP or HTTP software image download. After successfully receiving an image, the device will set its state to ignoreProvisioningUpgrade(3) and reboot. If the download process is interrupted (e.g., by a reset or power failure), the device will load the previous image and, after re-initialization, continue to attempt loading the image specified in docsDevSwFilename.

If set to allowProvisioningUpgrade(2), the device will use the software version information supplied by the provisioning server when next rebooting (this does not cause a reboot).

When set to ignoreProvisioningUpgrade(3), the device will disregard software image upgrade information from the provisioning server.

Note that reading this object can return upgradeFromMgt(1). This indicates that a software download is currently in progress, and that the device will reboot after successfully receiving an image."

```
DEFVAL { allowProvisioningUpgrade }
```

::= { docsDevSoftware 3 }

docsDevSwOperStatus OBJECT-TYPE

```
SYNTAX INTEGER {
    inProgress(1),
    completeFromProvisioning(2),
    completeFromMgt(3),
    failed(4),
    other(5)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"InProgress(1) indicates that a TFTP or HTTP download is underway, either as a result of a version mismatch at provisioning or as a result of a upgradeFromMgt request.

No other docsDevSw\* objects can be modified in this state.

CompleteFromProvisioning(2) indicates that the last software upgrade was a result of version mismatch at provisioning.

CompleteFromMgt(3) indicates that the last software upgrade was a result of setting docsDevSwAdminStatus to upgradeFromMgt.

Failed(4) indicates that the last attempted download failed, ordinarily due to TFTP or HTTP timeout."

REFERENCE

"DOCSIS RFI 1.0 Specification, Section 8.2., and  
DOCSIS RFI 1.1 Specification, Section 10.1. and  
DOCSIS RFI 2.0 Specification, Section 12.1."

::= { docsDevSoftware 4 }

docsDevSwCurrentVers OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The software version currently operating in this device.

This

string's syntax is that used by the

individual vendor to identify software versions.

For a CM, this string will describe the current software load. For a CMTS, this object SHOULD contain a human-readable representation either of the vendor specific designation of the software for the chassis, or of the software for the control processor. If neither of these is applicable, the value MUST be a zero-length string."

```
::= { docsDevSoftware 5 }
```

docsDevSwServerAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of the TFTP or HTTP server used for

software upgrades.

If docsDevSwServerTransportProtocol is currently set to tftp(1), attempting to set this object to dns(16) MUST result in an error."

```
::=  
{ docsDevSoftware 6 }
```

docsDevSwServerAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The address of the TFTP or HTTP server used for software upgrades.

If the TFTP/HTTP server is unknown, return the zero-length address string (see the TextualConvention).

If docsDevSwServer is also implemented in this agent, this object is tied to it. A set of this object to an IPv4 address will result in also setting the value of docsDevSwServer to that address. If this object is set to an IPv6 address, docsDevSwServer is set to 0.0.0.0. If docsDevSwServer is set, this object is also set to that value. Note that if both are set in the same action, the order of which one sets the other is undefined."

```
::= { docsDevSoftware 7 }
```

docsDevSwServerTransportProtocol

OBJECT-TYPE

```
SYNTAX INTEGER {  
    tftp(1),  
    http(2)  
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object specifies the transport protocol (TFTP or HTTP) to be used for software upgrades.

If the value of this object is tftp(1), then the cable device uses TFTP (RFC 1350) read request packets to download the docsDevSwFilename from the docsDevSwServerAddress in octet mode.

If the value of this object is http(2), then the cable device uses HTTP 1.0 (RFC 1945) or HTTP 1.1 (RFC 2616) GET requests sent to host docsDevSwServerAddress to

download the software image from path docsDevSwFilename.

If docsDevSwServerAddressType is currently set to dns(16), attempting to set this object to tftp(1) MUST result in an error."

DEFVAL

```
{ tftp }  
 ::= { docsDevSoftware 8 }
```

--

-- The following group describes server access and parameters used  
-- for initial provisioning and bootstrapping.

--

docsDevServer OBJECT IDENTIFIER ::= { docsDevMIBObjects 4 }

docsDevServerBootState OBJECT-TYPE

```
SYNTAX INTEGER {  
    operational(1),  
    disabled(2),  
    waitingForDhcpOffer(3),  
    waitingForDhcpResponse(4),  
    waitingForTimeServer(5),  
    waitingForTftp(6),  
    refusedByCmts(7),
```

```
forwardingDenied(8),
other(9),
unknown(10)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
```

"If operational(1), the device has completed loading and processing of configuration parameters, and the CMTS has completed the Registration exchange.

If disabled(2), then the device was administratively disabled, possibly by being refused network access in the configuration file.

If waitingForDhcpOffer(3), then a Dynamic Host Configuration Protocol (DHCP) Discover has been transmitted, and no offer has yet been received.

If waitingForDhcpResponse(4), then a DHCP Request has been transmitted, and no response has yet been received.

If waitingForTimeServer(5), then a Time Request has been transmitted, and no response has yet been received.

If waitingForTftp(6), then a request to the TFTP parameter server has been made, and no response received.

If refusedByCmts(7), then the Registration Request/Response exchange with the CMTS failed.

If forwardingDenied(8), then the registration process was completed, but the network access option in the received configuration file prohibits forwarding.

If other(9), then the registration process reached a point that does not fall into one of the above categories.

If unknown(10), then the device has not yet begun the registration process or is in some other indeterminate state."

REFERENCE



"DOCSIS RFI 1.0 Specification, Figure 7-1, and  
DOCSIS RFI 1.1 Specification, Figure 9-1 and  
DOCSIS RFI 2.0 Specification, Figure 11-1."

::= { docsDevServer 1 }

docsDevServerDhcp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the DHCP server that assigned an IP address to this device. Returns 0.0.0.0 if DHCP is not used for IP address assignment, or if this agent is not assigned an IPv4 address.

This object is deprecated and is replaced by docsDevServerDhcpAddress."

::= { docsDevServer  
2 }

docsDevServerTime OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the Time server (RFC 0868). Returns 0.0.0.0 if the time server IP address is unknown, or if the time server is not an IPv4 server.

This object is deprecated and is replaced by

docsDevServerTimeAddress."

::= { docsDevServer 3 }

docsDevServerTftp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server responsible for downloading provisioning and configuration parameters to this device. Returns 0.0.0.0 if the TFTP server address is unknown or is not an IPv4 address.

This object is deprecated and is replaced by docsDevServerConfigTftpAddress."

```
::= { docsDevServer  
4 }
```

docsDevServerConfigFile OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of the device configuration file read from the TFTP server. Returns a zero-length string if the configuration file name is unknown."

```
::= { docsDevServer 5 }
```

docsDevServerDhcpAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of address of docsDevServerDhcpAddress. If DHCP was not used, this value should return unknown(0)."

```
::= { docsDevServer 6 }
```

docsDevServerDhcpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The internet address of the DHCP server that assigned an IP address to this device. Returns the zero length

octet string if DHCP was not used for IP address assignment."

```
::= { docsDevServer 7 }
```

docsDevServerTimeAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of address of docsDevServerTimeAddress. If no time server exists, this value should return unknown(0)."

```
::= { docsDevServer 8 }
```

docsDevServerTimeAddress OBJECT-TYPE

SYNTAX InetAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The Internet address of the RFC 868 Time server,  
as provided by DHCP option 4.

Note that if multiple values are provided to the  
CM in DHCP option 4, the value of this MIB object  
MUST be the Time server address from which the Time  
of Day reference was acquired as based on the DOCSIS  
RFI specification.

During the period of time where  
the Time of Day have not been acquired, the Time  
server address reported by the CM may report the  
first address value in the DHCP option value or the  
last server address the CM attempted to get the Time  
of day value.

Returns the zero-length octet string if the time server  
IP address is not provisioned."

REFERENCE

"DOCSIS RFI 1.1 Specification, Section 9.2.7. and  
DOCSIS RFI 2.0 Specification, Section 11.2.7."

::= { docsDevServer 9 }

docsDevServerConfigTftpAddressType OBJECT-TYPE

SYNTAX InetAddressType  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The type of address of docsDevServerConfigTftpAddress.  
If no TFTP server exists, this value should return  
unknown(0)."

::= { docsDevServer 10 }

docsDevServerConfigTftpAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The internet address of the TFTP server responsible for  
downloading provisioning and configuration parameters  
to this device. Returns the zero-length octet string if

the config server address is unknown. There are certain security risks that are involved with using TFTP."

REFERENCE

"RFC 3617, Section 5"

::= { docsDevServer 11 }

--

-- Event Reporting

--

docsDevEvent OBJECT IDENTIFIER ::= { docsDevMIBObjects 5 }

docsDevEvControl OBJECT-TYPE

SYNTAX INTEGER {

resetLog(1),

useDefaultReporting(2)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to resetLog(1) empties the event log. All data is deleted. Setting it to useDefaultReporting(2) returns all event

priorities to

their factory-default reporting. Reading this object always returns useDefaultReporting(2)."

::= { docsDevEvent 1 }

docsDevEvSyslog OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the Syslog server. If 0.0.0.0, either syslog transmission is inhibited, or the Syslog server address is not an IPv4 address.

This object is deprecated and is replaced by docsDevEvSyslogAddress."

::= { docsDevEvent 2 }

docsDevEvThrottleAdminStatus OBJECT-TYPE

SYNTAX INTEGER {

unconstrained(1),

```
maintainBelowThreshold(2),
stopAtThreshold(3),
inhibited(4)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
  "Controls the transmission of traps and syslog messages
  with respect
to the trap pacing threshold.
```

unconstrained(1) causes traps and syslog messages to be transmitted without regard to the threshold settings.

maintainBelowThreshold(2) causes trap transmission and syslog messages to be suppressed if the number of traps would otherwise exceed the threshold.

stopAtThreshold(3) causes trap transmission to cease at the threshold and not to resume until directed to do so.

inhibited(4) causes all trap transmission and syslog messages to be suppressed.

A single event is always treated as a single event for threshold counting. That is, an event causing both a trap and a syslog message is still treated as a single event.

Writing to this object resets the thresholding state."

```
DEFVAL { unconstrained }
::= { docsDevEvent 3 }
```

docsDevEvThrottleInhibited OBJECT-TYPE

```
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
```

"If true(1), trap and syslog transmission is currently inhibited due to thresholds and/or the current setting of docsDevEvThrottleAdminStatus. In addition, this is true(1) when transmission is inhibited because no syslog (docsDevEvSyslog) or trap (docsDevNmAccessEntry) destinations have been set.

This object is deprecated and is replaced by docsDevEvThrottleThresholdExceeded."

::= { docsDevEvent 4 }

docsDevEvThrottleThreshold OBJECT-TYPE

SYNTAX Unsigned32

UNITS "events"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Number of events per docsDevEvThrottleInterval permitted before throttling is to occur.

A single event, whether the notification could result in

messages transmitted using syslog, SNMP, or both protocols, and regardless of the number of destinations, (including zero) is always treated as a single event for threshold counting. For example, an event causing both a trap and a syslog message is still treated as a single event.

All system notifications that occur within the device should be taken into consideration when calculating and monitoring the threshold."

DEFVAL { 0 }

::= { docsDevEvent 5 }

docsDevEvThrottleInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The interval over which docsDevEvThrottleThreshold applies."

DEFVAL { 1 }

::= { docsDevEvent 6 }

--

-- The following table controls the reporting of the various classes  
-- of events.

--

docsDevEvControlTable

OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table allows control of the reporting of event classes. For each event priority, a combination of

logging and reporting mechanisms may be chosen. The mapping of event types to priorities is vendor dependent. Vendors may also choose to allow the user to control that mapping through proprietary means. Table entries MUST persist across reboots for CMTS devices and MUST NOT persist across reboots for CM devices."

::= { docsDevEvent 7 }

docsDevEvControlEntry OBJECT-TYPE

SYNTAX DocsDevEvControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Allows configuration of the reporting mechanisms for a particular event priority."

INDEX { docsDevEvPriority }

::= { docsDevEvControlTable 1 }

DocsDevEvControlEntry ::= SEQUENCE {

docsDevEvPriority INTEGER,

docsDevEvReporting BITS

}

docsDevEvPriority OBJECT-TYPE

SYNTAX INTEGER {

emergency(1),

alert(2),

critical(3),

error(4),

warning(5),

notice(6),

information(7),

debug(8)

}

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority level that is controlled by this entry. These are ordered from most (emergency) to least

(debug) critical. Each event with a CM or CMTS has a particular priority level associated with it (as defined by the vendor).

emergency(1) events indicate vendor-specific fatal hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEvControlEntry 1 }
```

docsDevEvReporting OBJECT-TYPE

SYNTAX BITS {

local(0),

traps(1),

syslog(2),

-- The following are extensions to the original set of

-- labels. The extensions start at an octet boundary.

-- So for bits 3 - 7, one MUST set them to zero on send

-- and one MUST ignore them on receipt.



```
    localVolatile(8),
    stdInterface(9)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Defines the action to be taken on occurrence of this
    event class. Implementations may not necessarily
    support all options for all event classes but at
    minimum must allow traps and
syslogging to be
    disabled.
```

If the local(0) bit is set, then log to the internal log and update non-volatile store, for backward compatibility with the original RFC 2669 definition.

If the traps(1) bit is set, then generate an SNMP trap; if the syslog(2) bit is set, then send a syslog message (assuming that the syslog address is set). If the localVolatile(8) bit is set, then log to the internal log without updating non-volatile store. If the stdInterface(9) bit is set, then the agent ignores all other bits except the local(0), syslog(2), and localVolatile(8) bits. Setting the stdInterface(9) bit indicates that RFC3413 and RFC3014 are being used to control event reporting mechanisms."

```
::= { docsDevEvControlEntry 2 }
```

docsDevEventTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF DocsDevEventEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

"Contains a log of network and device events that may be of interest in fault isolation and troubleshooting.

If the local(0) bit is set in docsDevEvReporting, entries in this table MUST persist across reboots."

```
::= { docsDevEvent 8 }
```

docsDevEventEntry OBJECT-TYPE

```
SYNTAX DocsDevEventEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

"Describes a network or device event that may be of interest in fault isolation and troubleshooting. Multiple sequential identical events are represented by incrementing docsDevEvCounts and setting docsDevEvLastTime to the current time rather than creating multiple rows.

Entries are created with the first occurrence of an event. docsDevEvControl can be used to clear the table. Individual events cannot be deleted."

```
INDEX { docsDevEvIndex }  
::= { docsDevEventTable 1 }
```

```
DocsDevEventEntry ::= SEQUENCE {  
    docsDevEvIndex      Integer32,  
    docsDevEvFirstTime  DateAndTime,  
  
    docsDevEvLastTime   DateAndTime,  
    docsDevEvCounts     Counter32,  
    docsDevEvLevel      INTEGER,  
    docsDevEvId         Unsigned32,  
    docsDevEvText       SnmpAdminString  
}
```

docsDevEvIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides relative ordering of the objects in the event log. This object will always increase except when

(a) the log is reset via docsDevEvControl,

(b) the device reboots and does not implement

non-volatile storage for this log, or (c)

it reaches

the value  $2^{31}$ . The next entry for all the above cases is 1."

```
::= { docsDevEventEntry 1 }
```

docsDevEvFirstTime OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of docsDevDateTime at the time this entry was

```

    created."
    ::= { docsDevEventEntry 2 }

docsDevEvLastTime OBJECT-TYPE
    SYNTAX    DateAndTime
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION
        "When an entry reports only one event, this object will
        have the same value as the corresponding instance of
        docsDevEvFirstTime. When an entry reports multiple
        events, this object will record the value that
        docsDevDateTime had when the most recent event for this
        entry occurred."
    ::= { docsDevEventEntry 3 }

-- This object was renamed from docsDevEvCount to meet naming
--
requirements for Counter32
docsDevEvCounts OBJECT-TYPE
    SYNTAX    Counter32
    UNITS     "events"

    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION
        "The number of consecutive event instances reported by
        this entry. This starts at 1 with the creation of this
        row and increments by 1 for each subsequent duplicate
        event."
    ::= { docsDevEventEntry 4 }
docsDevEvLevel OBJECT-TYPE
    SYNTAX INTEGER {
        emergency(1),
        alert(2),
        critical(3),
        error(4),
        warning(5),
        notice(6),
        information(7),
        debug(8)
    }
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION
        "The priority level of this event, as defined by the

```

vendor. These are ordered from most serious (emergency) to least serious (debug).

emergency(1) events indicate vendor-specific fatal hardware or software errors that prevent normal system operation.

alert(2) events indicate a serious failure that causes the reporting system to reboot but that is not caused by hardware or software malfunctioning.

critical(3) events indicate a serious failure that requires attention and prevents the device from transmitting data but that could be recovered without rebooting the system.

error(4) and warning(5) events indicate that a failure occurred that could interrupt the normal data flow but that does not cause the device to re-register.

notice(6) and information(7) events indicate a milestone or checkpoint in normal operation that could be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific

events.

During normal operation, no event more critical than notice(6) should be generated. Events between warning and emergency should be generated at appropriate levels of problems (e.g., emergency when the box is about to crash)."

```
::= { docsDevEventEntry 5 }
```

--

-- It is strongly recommended that implementors follow the CableLabs  
-- enumerations for docsDevEvId, per the DOCSIS OSSIV1.1 spec  
-- and follow-on specifications.

--

```
docsDevEvId OBJECT-TYPE  
    SYNTAX      Unsigned32  
    MAX-ACCESS  read-only
```

STATUS current  
DESCRIPTION  
"For this product, uniquely identifies the type of event that is reported by this entry."  
REFERENCE  
"DOCSIS OSSI 1.1 Specification, Appendix H and DOCSIS OSSI 2.0 Specification, Annex D."  
::= { docsDevEventEntry 6 }

docsDevEvText OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"Provides a human-readable description of the event, including all relevant context (interface numbers, etc.)."  
::= { docsDevEventEntry 7 }

docsDevEvSyslogAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of address of docsDevEvSyslogAddress. If no syslog server exists, this value should return unknown(0)."

DEFVAL { unknown }

::= { docsDevEvent 9 }

docsDevEvSyslogAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The Internet address of the Syslog server, as provided by DHCP option 7 or set via SNMP management. If the address of the server is set to the zero-length string, the 0.0.0.0

IPv4 address, or the 0: IPv6 address, Syslog transmission is inhibited.

Note that if multiple values are provided to the CM in DHCP option 7, the value of this MIB object MUST be the

first Syslog server address received.

By default at agent boot, this object returns the zero length string."

::= { docsDevEvent 10 }

docsDevEvThrottleThresholdExceeded OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"If true(1), trap and syslog transmission is currently inhibited due to exceeding the trap/syslog event threshold in the current interval."

::= { docsDevEvent 11 }

--

-- Link Level Control Filtering

--

docsDevFilter OBJECT IDENTIFIER ::= { docsDevMIBObjects 6 }

docsDevFilterLLCUnmatchedAction OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2)

}

MAX-ACCESS

read-write

STATUS current

DESCRIPTION

"LLC (Link Level Control) filters can be defined on an inclusive or exclusive basis: CMs can be configured to forward only packets matching a set of layer three protocols, or to drop packets matching a set of layer three protocols. Typical use of these filters is to

filter out possibly harmful (given the context of a large metropolitan LAN) protocols.

If set to discard(1), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be discarded. If set to accept(2), any L2 packet that does not match at least one filter in the docsDevFilterLLCTable will be accepted for further processing (e.g., bridging). In other words, if the

packet does not match an entry in the table, it takes  
this action;  
if it does match an entry in the table, it  
takes the opposite of this action."

DEFVAL { accept }  
::= { docsDevFilter 1 }

docsDevFilterLLCTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterLLCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of filters to apply to (bridged) LLC  
traffic. The filters in this table are applied to  
incoming traffic on the appropriate interface(s) prior  
to any further processing (e.g., before the packet  
is handed off for level 3 processing, or for bridging).  
The specific action taken when no filter is matched is  
controlled by docsDevFilterLLCUnmatchedAction. Table  
entries MUST NOT persist across reboots for any device."

::= { docsDevFilter 2 }

docsDevFilterLLCEntry OBJECT-TYPE

SYNTAX DocsDevFilterLLCEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Describes a single filter to apply to (bridged) LLC  
traffic received on a specified interface. "

INDEX { docsDevFilterLLCIndex }

::= { docsDevFilterLLCTable 1 }

DocsDevFilterLLCEntry ::= SEQUENCE {

docsDevFilterLLCIndex Integer32,  
docsDevFilterLLCStatus RowStatus,  
docsDevFilterLLCIfIndex InterfaceIndexOrZero,  
docsDevFilterLLCProtocolType INTEGER,  
docsDevFilterLLCProtocol Integer32,  
docsDevFilterLLCMatches Counter32  
}

docsDevFilterLLCIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"Index used for the identification of filters (note that LLC filter order is irrelevant)."

::= { docsDevFilterLLCEntry 1 }

docsDevFilterLLCStatus

#### OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Controls and reflects the status of rows in this table. There is no restriction on changing any of the associated columns for this row while this object is set to active.

Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterLLCIfIndex (at least) must be specified on a CMTS to create a row."

::= { docsDevFilterLLCEntry 2 }

docsDevFilterLLCIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The entry interface to which this filter applies. The value corresponds to ifIndex for either a CATV MAC or another network interface. If the value is zero, the filter applies to all interfaces. In Cable Modems, the default value is the customer side interface(s). In CMTSs, this object has to be specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1 specification, ifIndex '1' in the CM means that this row applies to all Cable Modem-to-CPE Interfaces (CMCI)."

#### REFERENCE

"DOCSIS OSSIV 1.1 Specification, Section 3.3.4.1. and DOCSIS OSSIV 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterLLCEntry 3 }



docsDevFilterLLCProtocolType OBJECT-TYPE  
SYNTAX INTEGER {  
    ethertype(1),  
    dsap(2)  
}  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
    "The format of the value in docsDevFilterLLCProtocol:  
    either a two-byte Ethernet Ethertype, or a one-byte  
    802.2 Service Access Point (SAP) value. ethertype(1)  
    also applies to Standard Network Access Protocol  
    (SNAP) encapsulated frames."  
DEFVAL { ethertype }  
::= { docsDevFilterLLCEntry 4 }

docsDevFilterLLCProtocol OBJECT-TYPE  
SYNTAX Integer32 (0..65535)  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
    "The layer-three protocol for which this filter applies.  
    The protocol value format depends on  
    docsDevFilterLLCProtocolType. Note that for SNAP  
    frames, ethertype filtering is performed rather than  
    Destination Service Access Point (DSAP) =0xAA."  
DEFVAL { 0 }  
::= { docsDevFilterLLCEntry 5 }

docsDevFilterLLCMatches OBJECT-TYPE  
SYNTAX Counter32  
UNITS "matches"  
MAX-ACCESS read-only  
STATUS current  
  
DESCRIPTION  
    "Counts the number of times this filter was matched."  
::= { docsDevFilterLLCEntry 6 }

--  
-- IPv4 Filtering  
--

docsDevFilterIpDefault OBJECT-TYPE  
SYNTAX INTEGER {  
    discard(1),  
    accept(2)

}  
MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The default behavior for (bridged) packets that do not match IP filters (or Internet filters, if implemented) is defined by docsDevFilterIpDefault.

If set to discard(1), all packets not matching an IP filter in docsDevFilterIpTable will be discarded. If set to accept(2), all packets not matching an IP filter or an Internet filter will be accepted for further processing (e.g., bridging)."

DEFVAL { accept }

::= { docsDevFilter 3 }

docsDevFilterIpTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterIpEntry

MAX-ACCESS

not-accessible

STATUS deprecated

DESCRIPTION

"An ordered list of filters or classifiers to apply to IP traffic. Filter application is ordered by the filter index, rather than by a best match algorithm (note that this implies that the filter table may have gaps in the index values). Packets that match no filters will have policy 0 in the docsDevFilterPolicyTable applied to them, if it exists. Otherwise, Packets that match no filters are discarded or forwarded according to the setting of docsDevFilterIpDefault.

Any IP packet can theoretically match multiple rows of this table. When considering a packet, the table is scanned in row index order (e.g., filter 10 is checked before filter 20). If the packet matches that filter (which means that it matches ALL criteria for that row),

actions appropriate to docsDevFilterIpControl and docsDevFilterPolicyId are taken. If the packet was discarded processing is complete. If docsDevFilterIpContinue is set to true, the filter comparison continues with the next row in the table, looking for additional matches.

If the packet matches no filter in the table, the packet is accepted or dropped for further processing according to the setting of docsDevFilterIpDefault. If the packet is accepted, the actions specified by policy group 0 (e.g., the rows in docsDevFilterPolicyTable that have a value of 0 for docsDevFilterPolicyId) are taken, if that policy

group exists.

Logically, this table is consulted twice during the processing of any IP packet: once upon its acceptance from the L2 entity, and once upon its transmission to

the L2 entity. In actuality, for cable modems, IP filtering is generally the only IP processing done for transit traffic. This means that inbound and outbound filtering can generally be done at the same time with one pass through the filter table.

The objects in this table are only accessible from cable devices that are not operating in DiffServ MIB mode (RFC 3289). See the conformance section for details.

Note that some devices are required by other specifications (e.g., the DOCSIS OSSIV1.1 specification) to support the legacy SNMPv1/v2c docsDevFilter mode for backward compatibility.

Table entries **MUST NOT** persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 4 }

docsDevFilterIpEntry

OBJECT-TYPE

SYNTAX DocsDevFilterIpEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Describes a filter to apply to IP traffic received on a specified interface. All identity objects in this table (e.g., source and destination address/mask, protocol, source/dest port, TOS/mask, interface and direction)

must match their respective fields in the packet for any given filter to match.

To create an entry in this table, docsDevFilterIpIfIndex must be specified."

INDEX { docsDevFilterIpIndex }

::= { docsDevFilterIpTable 1 }

DocsDevFilterIpEntry ::= SEQUENCE {

docsDevFilterIpIndex Integer32,  
docsDevFilterIpStatus RowStatus,  
docsDevFilterIpControl INTEGER,

docsDevFilterIpIfIndex InterfaceIndexOrZero,

docsDevFilterIpDirection INTEGER,  
docsDevFilterIpBroadcast TruthValue,  
docsDevFilterIpSaddr IpAddress,  
docsDevFilterIpSmask IpAddress,  
docsDevFilterIpDaddr IpAddress,  
docsDevFilterIpDmask IpAddress,  
docsDevFilterIpProtocol Integer32,  
docsDevFilterIpSourcePortLow Integer32,  
docsDevFilterIpSourcePortHigh Integer32,  
docsDevFilterIpDestPortLow Integer32,  
docsDevFilterIpDestPortHigh Integer32,  
docsDevFilterIpMatches ZeroBasedCounter32,  
docsDevFilterIpTos OCTET STRING,  
docsDevFilterIpTosMask OCTET STRING,  
docsDevFilterIpContinue TruthValue,  
docsDevFilterIpPolicyId Integer32  
}

docsDevFilterIpIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Index used to order the application of filters.

The filter with the lowest index is always applied first."

::= { docsDevFilterIpEntry 1 }

docsDevFilterIpStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Controls and reflects the status of rows in this table. Specifying only this object (with the appropriate index) on a CM is sufficient to create a filter row that matches all inbound packets on the ethernet interface and results in the packets being discarded. docsDevFilterIpIfIndex (at least) must be specified on a CMTS to create a row. Creation of the rows may be done via either create-and-wait or create-and-go, but the filter is not applied until this

object is set to (or changes to) active. There is no restriction in changing any object in a row while this object is set to active."

::= { docsDevFilterIpEntry 2 }

docsDevFilterIpControl OBJECT-TYPE

SYNTAX INTEGER {

discard(1),

accept(2),

policy(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to discard(1), all packets matching this filter will be discarded, and scanning of the remainder of the filter list will be aborted. If set to accept(2), all packets matching this filter will be accepted for further processing (e.g., bridging). If docsDevFilterIpContinue is set to true, see if there are other matches; otherwise, done. If set to policy (3), execute the policy entries matched by docsDevFilterIpPolicyId in docsDevFilterPolicyTable.

If docsDevFilterIpContinue is set to true, continue scanning the table for other matches; otherwise, done."

DEFVAL { discard }

::= { docsDevFilterIpEntry 3 }

docsDevFilterIpIfIndex OBJECT-TYPE

SYNTAX InterfaceIndexOrZero

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entry interface to which this filter applies. The value corresponds to ifIndex for either a CATV MAC or another interface. If the value is zero, the filter applies to all interfaces. Default value in CMs is the index of the customer-side (e.g., ethernet) interface(s). In CMTSes, this object MUST be specified to create a row in this table.

Note that according to the DOCSIS OSSIV1.1 specification, ifIndex '1' in the Cable Modem means that this row applies to all CMCI (customer-facing) interfaces."

REFERENCE

"DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."

::= { docsDevFilterIpEntry 4 }

docsDevFilterIpDirection OBJECT-TYPE

SYNTAX INTEGER {

inbound(1),

outbound(2),

both(3)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Determines whether the filter is applied to inbound(1) traffic, outbound(2) traffic, or traffic in both(3) directions."

DEFVAL { inbound }

::= { docsDevFilterIpEntry 5 }

docsDevFilterIpBroadcast OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If set to true(1), the filter only applies to multicast and broadcast traffic. If set to false(2), the filter applies to all traffic."

```
DEFVAL { false }  
::= { docsDevFilterIpEntry 6 }
```

docsDevFilterIpSaddr OBJECT-TYPE

```
SYNTAX  IpAddress  
MAX-ACCESS  read-create  
STATUS  deprecated  
DESCRIPTION
```

"The source IP address, or portion thereof, that is to be matched for this filter. The source address is first masked (ANDed) against docsDevFilterIpSmask before being compared to this value. A value of 0 for this object and 0 for the mask matches all IP addresses."

```
DEFVAL { '00000000'h }  
::= { docsDevFilterIpEntry 7 }
```

docsDevFilterIpSmask OBJECT-TYPE

```
SYNTAX  IpAddress  
MAX-ACCESS  read-create  
STATUS  deprecated  
DESCRIPTION
```

"A bit mask that is to be applied to the source address prior to matching. This mask is not necessarily the same as a subnet mask, but 1s bits must be leftmost and contiguous."

```
DEFVAL  
{ '00000000'h }
```

```
::= { docsDevFilterIpEntry 8 }
```

docsDevFilterIpDaddr OBJECT-TYPE

```
SYNTAX  IpAddress  
MAX-ACCESS  read-create  
STATUS  deprecated  
DESCRIPTION
```

"The destination IP address, or portion thereof, that is to be matched for this filter. The destination address is first masked (ANDed) against docsDevFilterIpDmask before being compared to this value. A value of 00000000 for this object and 00000000 for the mask matches all IP addresses."

```
DEFVAL { '00000000'h }  
::= { docsDevFilterIpEntry 9 }
```

docsDevFilterIpDmask OBJECT-TYPE

```
SYNTAX  IpAddress
```

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A bit mask that is to be applied to the destination address prior to matching. This mask is not necessarily the same as a subnet mask, but 1s bits MUST be leftmost

and contiguous."

DEFVAL { '00000000'h }

::= { docsDevFilterIpEntry 10 }

docsDevFilterIpProtocol OBJECT-TYPE

SYNTAX Integer32 (0..256)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP protocol value that is to be matched. For example, icmp is 1, tcp is 6, and udp is 17. A value of 256 matches ANY protocol."

REFERENCE "www.iana.org/assignments/protocol-numbers"

DEFVAL { 256 }

::= { docsDevFilterIpEntry 11 }

docsDevFilterIpSourcePortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive lower bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 0 }

::= { docsDevFilterIpEntry 12 }

docsDevFilterIpSourcePortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive upper bound of the transport-layer source port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."



REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 65535 }

::= { docsDevFilterIpEntry 13 }

docsDevFilterIpDestPortLow OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive lower bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this

object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 0 }

::= { docsDevFilterIpEntry 14 }

docsDevFilterIpDestPortHigh OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the inclusive upper bound of the transport-layer destination port range that is to be matched. If the IP protocol of the packet is neither UDP nor TCP, this object is ignored during matching."

REFERENCE "www.iana.org/assignments/port-numbers"

DEFVAL { 65535 }

::= { docsDevFilterIpEntry 15 }

docsDevFilterIpMatches OBJECT-TYPE

SYNTAX ZeroBasedCounter32

UNITS "matches"

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"Counts the number of times this filter was matched.

This object is initialized

to 0 at boot, or at row

creation, and is reset only upon reboot."

::= { docsDevFilterIpEntry 16 }

docsDevFilterIpTos OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This is the value to be matched to the packet's TOS (Type of Service) value (after the TOS value is ANDed with docsDevFilterIpTosMask). A value for this object of 0 and a mask of 0 matches all TOS values."

DEFVAL { '00'h }

::= { docsDevFilterIpEntry 17 }

docsDevFilterIpTosMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The mask to be applied to the packet's TOS value before matching."

DEFVAL { '00'h }

::= { docsDevFilterIpEntry 18 }

docsDevFilterIpContinue OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"If this value is set to true and docsDevFilterIpControl is anything but discard (1), continue scanning and applying policies. See Section 3.3.3 for more details."

DEFVAL { false }

::= { docsDevFilterIpEntry 19 }

docsDevFilterIpPolicyId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This object points to an entry in docsDevFilterPolicyTable. If docsDevFilterIpControl

is set to policy (3), execute all matching policies in docsDevFilterPolicyTable. If no matching policy exists, treat as if docsDevFilterIpControl were set to accept (1). If this object is set to the value of 0, there is no matching policy, and

```
docsDevFilterPolicyTable MUST NOT be consulted."
DEFVAL { 0 }
::= { docsDevFilterIpEntry 20 }
```

```
--
-- Policy Mapping Table
--
```

docsDevFilterPolicyTable OBJECT-TYPE

```
SYNTAX SEQUENCE OF DocsDevFilterPolicyEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
```

"A Table that maps between a policy group ID and a set of pointers to policies to be applied. All rows with the same docsDevFilterPolicyId are part of the same group of policy pointers and are applied in the order in this table. docsDevFilterPolicyTable exists to allow multiple policy actions (referenced by policy pointers) to be applied to any given classified packet. The policy actions are applied in index order. For example:

| Index | ID | Type  | Action |
|-------|----|-------|--------|
| 1     | 1  | TOS   | 1      |
| 9     | 5  | TOS   | 1      |
| 12    | 1  | IPSEC | 3      |

This says that a packet that matches a filter with policy id 1 first has TOS policy 1 applied (which might set the TOS bits to enable a higher priority) and next has the IPSEC policy 3 applied (which may result in the packets being dumped into a secure VPN to a remote encryptor).

Policy ID 0 is reserved for default actions and is applied only to packets that match no filters in docsDevFilterIpTable.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB

from RFC 3289."

```
::= { docsDevFilter 5 }
```

docsDevFilterPolicyEntry OBJECT-TYPE

SYNTAX DocsDevFilterPolicyEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry in the docsDevFilterPolicyTable. Entries are created by Network

Management. To create an entry,

docsDevFilterPolicyId MUST be specified."

INDEX { docsDevFilterPolicyIndex }

```
::= { docsDevFilterPolicyTable 1 }
```

DocsDevFilterPolicyEntry ::= SEQUENCE {

docsDevFilterPolicyIndex Integer32,

docsDevFilterPolicyId Integer32,

-- docsDevFilterPolicyType INTEGER,

-- docsDevFilterPolicyAction Integer32,

docsDevFilterPolicyStatus RowStatus,

docsDevFilterPolicyPtr RowPointer

}

docsDevFilterPolicyIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION "Index value for the table."

```
::= { docsDevFilterPolicyEntry 1 }
```

docsDevFilterPolicyId OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"Policy ID for this entry. If a policy ID can apply

to

multiple rows of this table, all relevant policies are

executed. Policy 0 (if populated) is applied to all

packets that do not match any of the filters. N.B. If

docsDevFilterIpPolicyId is set to 0, it DOES NOT match

policy 0 of this table."

```
::= { docsDevFilterPolicyEntry 2 }
```

-- The following two objects were removed and never used; however,

-- to preserve OID numbering, they are simply commented out to

-- to ensure that they are not used again.

-- docsDevFilterPolicyType ::= { docsDevFilterPolicyEntry 3 }

```
-- docsDevFilterPolicyAction ::= { docsDevFilterPolicyEntry 4 }
```

```
docsDevFilterPolicyStatus OBJECT-TYPE
```

```
SYNTAX RowStatus
```

```
MAX-ACCESS read-create
```

```
STATUS deprecated
```

```
DESCRIPTION
```

"Object used to create an entry in this table. There is no restriction in changing any object in a row while this object is set to active.

The

following object MUST have a valid value before this

object can be set to active: docsDevFilterPolicyPtr."

```
::= { docsDevFilterPolicyEntry 5 }
```

```
docsDevFilterPolicyPtr OBJECT-TYPE
```

```
SYNTAX RowPointer
```

```
MAX-ACCESS read-create
```

```
STATUS deprecated
```

```
DESCRIPTION
```

"This object points to a row in an applicable filter policy table. Currently, the only standard policy table is docsDevFilterTosTable.

Per the textual convention, this object points to the first accessible object in the row; e.g., to point to a row in docsDevFilterTosTable with an index of 21, the value of this object would be the object identifier docsDevTosStatus.21.

Vendors are recommended to adhere to the same convention when adding vendor-specific policy table extensions.

If this pointer references an empty or non-existent

row, then no policy action is taken.

The default upon row creation is a null pointer that results in no policy action being taken."

```
DEFVAL { zeroDotZero }
```

```
::= { docsDevFilterPolicyEntry 6 }
```

```
--
```

```
-- TOS Policy action table
```

```
--
```

docsDevFilterTosTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevFilterTosEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Table used to describe Type of Service (TOS) bits

processing.

This table is an adjunct to the docsDevFilterIpTable and the docsDevFilterPolicy table. Entries in the latter table can point to specific rows in this (and other) tables and cause specific actions to be taken.

This table permits the manipulation of the value of the Type of Service bits in the IP header of the matched packet as follows:

Set the tosBits  
of the packet to  
(tosBits & docsDevFilterTosAndMask) |  
docsDevFilterTosOrMask

This construct allows you to do a clear and set of all the TOS bits in a flexible manner.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."

::= { docsDevFilter 6 }

docsDevFilterTosEntry OBJECT-TYPE

SYNTAX DocsDevFilterTosEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A TOS policy entry."

INDEX { docsDevFilterTosIndex }

::= { docsDevFilterTosTable 1 }

DocsDevFilterTosEntry ::= SEQUENCE {  
docsDevFilterTosIndex Integer32,  
docsDevFilterTosStatus RowStatus,  
docsDevFilterTosAndMask OCTET STRING,  
docsDevFilterTosOrMask OCTET STRING

}

docsDevFilterTosIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The unique index for this row. There are no ordering requirements for this table, and any valid index may be specified."

::= { docsDevFilterTosEntry 1 }

docsDevFilterTosStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The object used to create and delete entries in this table. A row created by specifying just this object results in a row that specifies no change to the TOS bits. A row may be created using either the create-and-go or create-and-wait paradigms. There is no restriction on the ability to change values in this row while the row is active."

::= { docsDevFilterTosEntry 2 }

docsDevFilterTosAndMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This value is bitwise ANDed with the matched packet's TOS bits."

DEFVAL { 'ff'h }

::= { docsDevFilterTosEntry 3 }

docsDevFilterTosOrMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"This value is bitwise ORed with the result from the AND procedure (tosBits & docsDevFilterTosAndMask). The result then replaces the packet's TOS bits."

DEFVAL { '00'h }

```

 ::= { docsDevFilterTosEntry 4 }

--
-- CPE IP Management and anti-spoofing group. Only implemented on
-- Cable Modems.
--

docsDevCpe OBJECT IDENTIFIER ::= { docsDevMIBObjects 7 }

docsDevCpeEnroll OBJECT-TYPE
    SYNTAX    INTEGER {
        none(1),
        any(2)
    }
    MAX-ACCESS read-write

    STATUS    current
    DESCRIPTION
        "This object controls the population of
        docsDevFilterCpeTable.
        If set to none, the filters must be set manually
        by a network management action (either configuration
        or SNMP set).
        If set to any, the CM wiretaps the packets originating
        from the ethernet and enrolls up to docsDevCpeIpMax
        addresses as based on the source IPv4 or v6 addresses of
        those packets."
    DEFVAL { any }
    ::= { docsDevCpe 1 }

docsDevCpeIpMax OBJECT-TYPE
    SYNTAX    Integer32 (-1..2147483647)
    MAX-ACCESS read-write
    STATUS    current
    DESCRIPTION
        "This object controls the maximum number of CPEs allowed
        to be learned behind this device. If set to zero, any
        number of CPEs may connect up to the maximum permitted
        for the device.
        If set to -1, no filtering
        is done on CPE source
        addresses, and no entries are made in the
        docsDevFilterCpeTable via learning. If an attempt is
        made to set this to a number greater than that
        permitted for the device, it is set to that maximum."

```



```
DEFVAL { -1 }  
::= { docsDevCpe 2 }
```

docsDevCpeTable OBJECT-TYPE

SYNTAX SEQUENCE OF DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"This table lists the IPv4 addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms. Table entries MUST NOT persist across reboots for any device.

N.B. Management action can add entries in this table and

in docsDevCpeIpTable past the value of

docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the ability of the CM to add learned addresses automatically.

This table is deprecated and is replaced by docsDevCpeInetTable."

```
::= { docsDevCpe 3 }
```

docsDevCpeEntry OBJECT-TYPE

SYNTAX DocsDevCpeEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"An entry in the docsDevFilterCpeTable. There is one entry for each IPv4 CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any

and the sum of the table sizes of docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable)."

INDEX { docsDevCpeIp }

::= { docsDevCpeTable 1 }

```
DocsDevCpeEntry ::= SEQUENCE {
    docsDevCpeIp  IpAddress,
    docsDevCpeSource  INTEGER,
    docsDevCpeStatus  RowStatus
}
```

docsDevCpeIp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"The IPv4 address to which this entry applies.

N.B. Attempts to set all zeros or all ones address values MUST be rejected."

::= { docsDevCpeEntry 1 }

docsDevCpeSource OBJECT-TYPE

SYNTAX INTEGER {

other(1),

manual(2),

learned(3)

}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"This object describes how this entry was created. If the value is manual(2), this row was created by a network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IPv4 address of a received packet. The value other(1) is used for any entries that do not meet manual(2) or learned(3) criteria."

::= { docsDevCpeEntry 2 }

```
docsDevCpeStatus OBJECT-TYPE
    SYNTAX RowStatus
    MAX-ACCESS read-create
    STATUS deprecated
    DESCRIPTION
        "Standard object to manipulate rows. To create a row in
        this table, one only needs
to specify this object.
        Management stations SHOULD use the create-and-go
        mechanism for creating rows in this table."
    ::= { docsDevCpeEntry 3 }

--
-- Internet CPE Management and anti spoofing group, for support of
-- non-IPv4 CPEs.
--
```

```
docsDevCpeInetTable OBJECT-TYPE
    SYNTAX SEQUENCE OF DocsDevCpeInetEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table lists the IP addresses seen (or permitted) as
        source addresses in packets originating from the
        customer interface on this device. In addition, this
        table can be provisioned with the specific addresses
        permitted for the CPEs via the normal row creation
        mechanisms.
```

N.B. Management action can add entries in this table  
and in docsDevCpeIpTable past the value of  
docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the

ability of the CM to add learned addresses  
automatically.

Table entries MUST NOT persist across reboots for any  
device.

This table exactly mirrors docsDevCpeTable and applies  
to IPv4 and IPv6 addresses."

```
::= { docsDevCpe 4 }
```

```
docsDevCpeInetEntry OBJECT-TYPE
    SYNTAX DocsDevCpeInetEntry
    MAX-ACCESS not-accessible
```

STATUS current

DESCRIPTION

"An entry in the docsDevFilterCpeInetTable. There is one entry for each IP CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any and the

sum of the table sizes for docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable).

When an agent (cable modem) restarts, then all dynamically created rows are lost."

INDEX { docsDevCpeInetType, docsDevCpeInetAddr }  
::= { docsDevCpeInetTable 1 }

DocsDevCpeInetEntry ::= SEQUENCE {  
docsDevCpeInetType InetAddressType,  
docsDevCpeInetAddr InetAddress,  
docsDevCpeInetSource INTEGER,  
docsDevCpeInetRowStatus RowStatus  
}

docsDevCpeInetType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"The type of internet address of docsDevCpeInetAddr."

::= { docsDevCpeInetEntry 1 }

docsDevCpeInetAddr OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The Internet address to which this entry applies.

Implementors need to be aware that if the size of docsDevCpeInetAddr exceeds 114 octets OIDs of instances of columns in this row will have more than 128 sub-identifiers and cannot be accessed using SNMPv1, SNMPv2c, or SNMPv3. Only unicast address are allowed for this object."

::= { docsDevCpeInetEntry 2 }

docsDevCpeInetSource OBJECT-TYPE

SYNTAX INTEGER {

manual(2),

learned(3)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object

describes how this entry was created. If

the value is manual(2), this row was created by a network management action (either configuration or SNMP set). If set to learned(3), then it was found via looking at the source IP address of a received packet."

::= { docsDevCpeInetEntry 3 }

docsDevCpeInetRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Standard object to manipulate rows. To create a row in this table, one only needs to specify this object.

Management stations SHOULD use the create-and-go mechanism for creating rows in this table."

::= { docsDevCpeInetEntry 4 }

--

-- Placeholder for notifications/traps.

--

```

-- erroneous, DO NOT USE docsDevNotification
docsDevNotification OBJECT IDENTIFIER ::= { docsDev 2 }
-- erroneous, DO NOT USE docsDevNotification

docsDevNotifications
OBJECT IDENTIFIER ::= { docsDev 0 }

--
-- RFC 2669 Conformance definitions
--

docsDevConformance OBJECT IDENTIFIER ::= { docsDev 3 }
docsDevGroups OBJECT IDENTIFIER ::= { docsDevConformance 1 }
docsDevCompliances OBJECT IDENTIFIER ::= { docsDevConformance 2 }

docsDevBasicCompliance MODULE-COMPLIANCE
    STATUS deprecated
    DESCRIPTION
        "The RFC 2669 compliance statement for MCNS/DOCSIS
        Cable Modems and Cable Modem Termination Systems."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem
        Termination Systems."

GROUP docsDevEventGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem
        Termination Systems."

GROUP docsDevFilterGroup
    DESCRIPTION
        "Mandatory in Cable Modems, optional in Cable Modem
        Termination Systems."

GROUP
docsDevNmAccessGroup

    DESCRIPTION
        "This group is only implemented in devices that do not

```

implement the SNMPv3 User Security Model. It SHOULD NOT be implemented by devices that conform to SNMPv3.

For devices that do not implement SNMPv3 or later, this group is Mandatory in Cable Modems and is optional in Cable Modem Termination Systems."

GROUP docsDevServerGroup

DESCRIPTION

"This group is implemented only in Cable Modems, and is not implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroup

DESCRIPTION

"This group is Mandatory in Cable Modems and optional in Cable Modem Termination Systems."

GROUP docsDevCpeGroup

DESCRIPTION

"This group is Mandatory in Cable Modems, and is not implemented in Cable Modem Termination Systems."

OBJECT docsDevSTPControl

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support noStFilterBpdu(2)."

OBJECT docsDevNmAccessIp

DESCRIPTION

"It is compliant to recognize the IP address 255.255.255.255 as referring to any NMS."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0). An agent need not enforce that trap or syslog logging be accompanied by local(0) or localVolatile(3) logging."

::= { docsDevCompliances 1 }

docsDevBaseGroup OBJECT-GROUP

OBJECTS {

docsDevRole,  
docsDevDateTime,

```
docsDevResetNow,
docsDevSerialNumber,
docsDevSTPControl
}
STATUS    current
DESCRIPTION
    "A collection of objects providing device status
and
    control."
::= { docsDevGroups 1 }
```

docsDevNmAccessGroup OBJECT-GROUP

```
OBJECTS {
docsDevNmAccessIp,
docsDevNmAccessIpMask,
docsDevNmAccessCommunity,
docsDevNmAccessControl,
docsDevNmAccessInterfaces,
docsDevNmAccessStatus
}
STATUS    deprecated
DESCRIPTION
    "A collection of objects for controlling access to SNMP
objects on cable devices.

    This group has been deprecated because all the
objects have been deprecated in favor of SNMPv3 and
Coexistence MIBs."
::= { docsDevGroups 2 }
```

docsDevSoftwareGroup OBJECT-GROUP

```
OBJECTS {
docsDevSwServer,
docsDevSwFilename,
docsDevSwAdminStatus,
docsDevSwOperStatus,
docsDevSwCurrentVers
}
STATUS    deprecated
DESCRIPTION
    "A collection of objects
for controlling software
downloads.

    This group has been deprecated and replaced by
docsDevSoftwareGroupV2. Object docsDevSwServer
has been replaced by docsDevSwServerAddressType
```



and docsDevSwServerAddress, and docsDevSwServerTransportProtocol has been added to support TFTP and HTTP firmware downloads."

```
::= { docsDevGroups 3 }
```

docsDevServerGroup OBJECT-GROUP

OBJECTS {

docsDevServerBootState,  
docsDevServerDhcp,  
docsDevServerTime,  
docsDevServerTftp,  
docsDevServerConfigFile

}

STATUS deprecated

DESCRIPTION

"A collection of objects providing status about server provisioning.

This group has been deprecated and replaced by docsDevServerGroupV2. The objects docsDevServerDhcp, docsDevServerTime, and docsDevServerTftp have

been replaced by docsDevServerDhcpAddressType, docsDevServerDhcpAddress, docsDevServerTimeAddressType, docsDevServerTimeAddress, docsDevServerConfigTftpAddressType, and docsDevServerConfigTftpAddress."

```
::= { docsDevGroups 4 }
```

docsDevEventGroup OBJECT-GROUP

OBJECTS {

docsDevEvControl,  
docsDevEvSyslog,  
docsDevEvThrottleAdminStatus,  
docsDevEvThrottleInhibited,  
docsDevEvThrottleThreshold,  
docsDevEvThrottleInterval,  
docsDevEvReporting,  
docsDevEvFirstTime,  
docsDevEvLastTime,  
docsDevEvCounts,  
docsDevEvLevel,  
docsDevEvId,  
docsDevEvText

}

STATUS deprecated

DESCRIPTION

"A collection of objects used to control and monitor events.

This group has been deprecated and replaced by docsDevEventGroupV2.

The object docsDevEvSyslog has

been replaced by docsDevEvSyslogAddressType and docsDevEvSyslogAddress, and docsDevEvThrottleInhibited has been replaced by docsDevEvThrottleThresholdExceeded."

::= { docsDevGroups 5 }

docsDevFilterGroup OBJECT-GROUP

OBJECTS {

docsDevFilterLLCUnmatchedAction,  
docsDevFilterIpDefault,  
docsDevFilterLLCStatus,  
docsDevFilterLLCIfIndex,  
docsDevFilterLLCProtocolType,  
docsDevFilterLLCProtocol,  
docsDevFilterLLCMatches,  
docsDevFilterIpControl,  
docsDevFilterIpIfIndex,  
docsDevFilterIpStatus,  
docsDevFilterIpDirection,  
docsDevFilterIpBroadcast,  
docsDevFilterIpSaddr,  
docsDevFilterIpSmask,  
docsDevFilterIpDaddr,  
docsDevFilterIpDmask,  
docsDevFilterIpProtocol,  
docsDevFilterIpSourcePortLow,  
docsDevFilterIpSourcePortHigh,  
docsDevFilterIpDestPortLow,  
docsDevFilterIpDestPortHigh,  
docsDevFilterIpMatches,  
docsDevFilterIpTos,  
docsDevFilterIpTosMask,  
docsDevFilterIpContinue,  
docsDevFilterIpPolicyId,  
docsDevFilterPolicyId,  
docsDevFilterPolicyStatus,  
docsDevFilterPolicyPtr,

```
docsDevFilterTosStatus,  
docsDevFilterTosAndMask,  
docsDevFilterTosOrMask  
}
```

STATUS deprecated

DESCRIPTION

"A collection of objects to specify filters at the link layer and IPv4 layer.

This group has been deprecated and replaced by various groups from the DiffServ MIB."

```
::= { docsDevGroups 6 }
```

docsDevCpeGroup OBJECT-GROUP

OBJECTS {

```
docsDevCpeEnroll,  
docsDevCpeIpMax,  
docsDevCpeSource,  
docsDevCpeStatus  
}
```

STATUS deprecated

DESCRIPTION

"A collection of objects used to control the number and specific values of IPv4 addresses allowed for associated Customer Premises Equipment (CPE).

This group has been deprecated and replaced by docsDevInetCpeGroup. The object docsDevCpeSource has been replaced by docsDevCpeInetSource, and docsDevCpeStatus has been replaced by docsDevCpeInetRowStatus."

```
::= { docsDevGroups 7 }
```

--

-- RFC 4639 Conformance definitions

--

```
docsDevGroupsV2 OBJECT IDENTIFIER ::= { docsDevConformance 3 }
```

```
docsDevCompliancesV2 OBJECT IDENTIFIER ::= { docsDevConformance 4 }
```

docsDevCmCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modems.

This compliance statement applies to implementations of DOCSIS versions that are not IPv6 capable."

MODULE DIFFSERV-MIB -- RFC 3289

```
MANDATORY-GROUPS {
    diffServMIBDataPathGroup,
    diffServMIBClfrGroup,
    diffServMIBClfrElementGroup,
    diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup,
    diffServMIBDscpMarkActGroup,
    diffServMIBCounterGroup,
    diffServMIBAlgDropGroup
}
```

```
OBJECT diffServDataPathStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
        "Support for createAndWait and notInService is not
        required."
```

```
OBJECT diffServClfrStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
        "Support for createAndWait and notInService is not
        required."
```

```
OBJECT diffServClfrElementStatus -- same as RFC 3289
    SYNTAX RowStatus { active(1) }
}
    WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
    DESCRIPTION
        "Support for createAndWait and notInService is not
        required."
```

```
OBJECT diffServMultiFieldClfrAddrType
    SYNTAX InetAddressType { ipv4(1) }
    DESCRIPTION
        "An implementation is only required to support IPv4
        addresses."
```

OBJECT diffServMultiFieldClfrSrcAddr  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT diffServMultiFieldClfrDstAddr  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT diffServAlgDropStatus -- same as RFC 3289  
SYNTAX RowStatus { active(1) }  
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }  
DESCRIPTION  
"Support for createAndWait and notInService is not required."

OBJECT diffServDataPathStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support volatile storage."

OBJECT diffServClfrStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support volatile storage."

OBJECT diffServClfrElementStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support volatile storage."

OBJECT diffServMultiFieldClfrStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support volatile storage."

OBJECT diffServActionStorage

SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support  
volatile storage."

OBJECT diffServCountActStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support  
volatile storage."

OBJECT diffServAlgDropStorage  
SYNTAX StorageType { volatile(2) }  
DESCRIPTION  
"An implementation is only required to support  
volatile storage."

OBJECT diffServAlgDropType  
SYNTAX INTEGER { alwaysDrop(5) }  
DESCRIPTION  
"This object is only used to provide packet  
filtering. Implementations need not support other  
values of this enumeration."

MODULE -- docsDev

MANDATORY-GROUPS {  
docsDevBaseGroup,  
docsDevBaseIcmpGroup,  
docsDevBaseMaxCpeGroup,  
docsDevSoftwareGroupV2,  
docsDevServerGroupV2,  
docsDevEventGroupV2,  
docsDevFilterLLCGroup  
}

-- conditionally mandatory groups

GROUP docsDevInetCpeGroup  
DESCRIPTION  
"This group is  
optional in Cable Modems."

OBJECT docsDevDateTime  
MIN-ACCESS read-only  
DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIcmpModeControl

SYNTAX INTEGER { passive(1) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only.

Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerDhcpAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerDhcpAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddress  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerConfigTftpAddressType  
SYNTAX InetAddressType { ipv4(1) }  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT  
docsDevServerConfigTftpAddress  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting  
MIN-ACCESS read-only  
DESCRIPTION  
"It is compliant to implement this object as read-only. Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType  
SYNTAX InetAddressType { ipv4(1) }  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress  
SYNTAX InetAddress (SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerTransportProtocol  
SYNTAX INTEGER { tftp(1) }  
DESCRIPTION  
"An implementation is only required to support TFTP software image downloads."

::= { docsDevCompliancesV2



1 }

docsDevCmtsCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for DOCSIS Cable Modem Termination Systems.

This compliance statement applies to implementations of DOCSIS versions that are not IPv6 capable."

MODULE -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseIcmpGroup

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevSoftwareGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems."

GROUP docsDevEventGroupV2

DESCRIPTION

"Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup

DESCRIPTION

"This group MUST NOT be implemented in Cable Modem Termination Systems. See the Subscriber Management MIB for similar CMTS capability."

OBJECT docsDevDateTime

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl

SYNTAX INTEGER { noStFilterBpdu(2) }

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl

SYNTAX INTEGER { passive(1)

}

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType

SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerAddress

SYNTAX InetAddress (SIZE(4))

DESCRIPTION

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only

DESCRIPTION

"It is compliant to implement this object as read-only. Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType  
SYNTAX InetAddressType { ipv4(1) }  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress  
SYNTAX InetAddress  
(SIZE(4))  
DESCRIPTION  
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerTransportProtocol  
SYNTAX INTEGER { tftp(1) }  
DESCRIPTION  
"An implementation is only required to support TFTP software image downloads."

::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP  
OBJECTS {  
docsDevIgmpModeControl  
}  
STATUS current  
DESCRIPTION  
"An object providing cable device IGMP status and control."  
::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP  
OBJECTS {  
docsDevMaxCpe  
}  
STATUS current  
DESCRIPTION  
"An object providing management of the maximum number of CPEs permitted access through a cable modem."  
::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP  
OBJECTS {  
  
docsDevNmAccessTrapVersion

```

}
STATUS deprecated
DESCRIPTION
  "An object, in addition to the objects in
  docsDevNmAccessGroup, for controlling access to
  SNMP objects on cable devices.

  This group is included in this MIB due to existing
  implementations of docsDevNmAccessTrapVersion in
  DOCSIS cable modems.

  This group has been deprecated because the object has
  been deprecated in favor of SNMPv3 and Coexistence
  MIBs."
::= { docsDevGroupsV2 3 }

```

#### docsDevSoftwareGroupV2 OBJECT-GROUP

```

OBJECTS {
  docsDevSwFilename,
  docsDevSwAdminStatus,
  docsDevSwOperStatus,
  docsDevSwCurrentVers,
  docsDevSwServerAddressType,
  docsDevSwServerAddress,
  docsDevSwServerTransportProtocol
}
STATUS current
DESCRIPTION
  "A collection of
objects for controlling software
  downloads. This group replaces docsDevSoftwareGroup."
::= { docsDevGroupsV2 4 }

```

#### docsDevServerGroupV2 OBJECT-GROUP

```

OBJECTS {
  docsDevServerBootState,
  docsDevServerDhcpAddressType,
  docsDevServerDhcpAddress,
  docsDevServerTimeAddressType,
  docsDevServerTimeAddress,
  docsDevServerConfigTftpAddressType,
  docsDevServerConfigTftpAddress,
  docsDevServerConfigFile
}
STATUS current
DESCRIPTION
  "A collection of objects providing status about server
  provisioning. This group replaces docsDevServerGroup."

```

::= { docsDevGroupsV2 5 }

docsDevEventGroupV2 OBJECT-GROUP

OBJECTS {

docsDevEvControl,  
docsDevEvThrottleAdminStatus,  
docsDevEvThrottleThreshold,  
docsDevEvThrottleInterval,  
docsDevEvReporting,  
docsDevEvFirstTime,  
docsDevEvLastTime,  
docsDevEvCounts,  
docsDevEvLevel,  
docsDevEvId,  
docsDevEvText,  
docsDevEvSyslogAddressType,  
docsDevEvSyslogAddress,  
docsDevEvThrottleThresholdExceeded

}

STATUS current

DESCRIPTION

"A collection of objects used to control and monitor events. This group replaces docsDevEventGroup. The event reporting mechanism, and more specifically docsDevEvReporting, can be used to take advantage of the event reporting features of RFC3413 and RFC3014."

::= { docsDevGroupsV2 6 }

docsDevFilterLLCGroup OBJECT-GROUP

OBJECTS {

docsDevFilterLLCUnmatchedAction,  
docsDevFilterLLCStatus,  
docsDevFilterLLCIfIndex,  
docsDevFilterLLCProtocolType,  
docsDevFilterLLCProtocol,  
docsDevFilterLLCMatches

}

STATUS

current

DESCRIPTION

"A collection of objects to specify link layer filters."

::= { docsDevGroupsV2 7 }

docsDevInetCpeGroup OBJECT-GROUP

OBJECTS {

docsDevCpeEnroll,

```
docsDevCpeIpMax,  
docsDevCpeInetSource,  
docsDevCpeInetRowStatus  
}  
STATUS current
```

#### DESCRIPTION

"A collection of objects used to control the number and specific values of Internet (e.g., IPv4 and IPv6) addresses allowed for associated Customer Premises Equipment (CPE)."

```
::= { docsDevGroupsV2 8 }
```

END

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB
```

No license file was found, but licenses were detected in source scan.

IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

#### IMPORTS

```
MODULE-IDENTITY, mib-2 FROM SNMPv2-SMI  
TEXTUAL-CONVENTION FROM SNMPv2-TC;
```

ianaItuAlarmNumbers MODULE-IDENTITY

LAST-UPDATED "200409090000Z" -- September 09, 2004

ORGANIZATION "IANA"

#### CONTACT-INFO

```
"Postal: Internet Assigned Numbers Authority  
Internet Corporation for Assigned Names  
and Numbers  
4676 Admiralty Way, Suite 330  
Marina del Rey, CA 90292-6601  
USA
```

```
Tel: +1 310-823-9358
```

```
E-Mail: iana&iana.org"
```

#### DESCRIPTION

"The MIB module defines the ITU Alarm textual convention for objects expected to require regular extension.

Copyright (C) The Internet Society (2004). The initial version

of this MIB module was published

in RFC 3877. For full legal notices see the RFC  
itself. Supplementary information may be available on:  
<http://www.ietf.org/copyrights/ianamib.html>"

REVISION "200409090000Z"

DESCRIPTION

"Initial version, published as RFC 3877."

::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"ITU-T probable cause values. Duplicate values defined in  
X.733 are appended with X733 to ensure syntactic uniqueness.  
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible  
for the assignment of the enumerations in this TC.

IANAItuProbableCause value of 0 is reserved for special  
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are  
reserved

for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a  
first-come, first served basis and will be assigned  
enumeration values starting with 1025.

Request should come in the form of well-formed  
SMI [RFC2578] for enumeration names that are unique and  
sufficiently descriptive.

While some effort will be taken to ensure that new probable  
causes do not conceptually duplicate existing probable  
causes it is acknowledged that the existence of conceptual  
duplicates in the starting probable cause list is an known  
industry reality.

To aid IANA in the administration of probable cause names  
and values, the OPS Area Director will appoint one or more  
experts to help review requests.

See <http://www.iana.org>"

REFERENCE

"ITU Recommendation M.3100,

'Generic Network Information

Model', 1995

ITU Recommendation X.733, 'Information Technology - Open Systems Interconnection - System Management: Alarm Reporting Function', 1992

ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

{

-- The following probable causes were defined in M.3100

aIS (1),  
callSetUpFailure (2),  
degradedSignal (3),  
farEndReceiverFailure (4),  
framingError (5),  
lossOfFrame (6),  
lossOfPointer (7),  
lossOfSignal (8),  
payloadTypeMismatch (9),  
transmissionError (10),  
remoteAlarmInterface (11),  
excessiveBER (12),

pathTraceMismatch (13),  
unavailable (14),  
signalLabelMismatch (15),  
lossOfMultiFrame (16),  
receiveFailure (17),  
transmitFailure (18),  
modulationFailure (19),  
demodulationFailure (20),  
broadcastChannelFailure (21),  
connectionEstablishmentError (22),  
invalidMessageReceived (23),  
localNodeTransmissionError (24),  
remoteNodeTransmissionError (25),  
routingFailure (26),

--Values 27-50 are reserved for communications alarm related

--probable causes

-- The following are used with equipment alarm.

backplaneFailure (51),  
dataSetProblem (52),  
equipmentIdentifierDuplication (53),  
externalIFDeviceProblem (54),  
lineCardProblem (55),  
multiplexerProblem (56),



nEIdentifierDuplication  
(57),  
powerProblem (58),  
processorProblem (59),  
protectionPathFailure (60),  
receiverFailure (61),  
replaceableUnitMissing (62),  
replaceableUnitTypeMismatch (63),  
synchronizationSourceMismatch (64),  
terminalProblem (65),  
timingProblem (66),  
transmitterFailure (67),  
trunkCardProblem (68),  
replaceableUnitProblem (69),  
realTimeClockFailure (70),  
--An equipment alarm to be issued if the system detects that the  
--real time clock has failed  
antennaFailure (71),  
batteryChargingFailure (72),  
diskFailure (73),  
frequencyHoppingFailure (74),  
iODeviceError (75),  
lossOfSynchronisation (76),  
lossOfRedundancy (77),  
powerSupplyFailure (78),  
signalQualityEvaluationFailure (79),  
tranceiverFailure (80),  
protectionMechanismFailure (81),  
protectingResourceFailure (82),  
-- Values 83-100 are reserved for equipment alarm related probable  
-- causes  
-- The following are used with environmental alarm.  
airCompressorFailure (101),  
airConditioningFailure (102),  
airDryerFailure (103),  
batteryDischarging (104),  
batteryFailure (105),  
commercialPowerFailure (106),  
coolingFanFailure (107),  
engineFailure (108),  
fireDetectorFailure (109),  
fuseFailure (110),  
generatorFailure (111),  
lowBatteryThreshold (112),  
pumpFailure (113),  
rectifierFailure (114),  
rectifierHighVoltage (115),  
rectifierLowFVvoltage

(116),  
ventilationsSystemFailure (117),  
enclosureDoorOpen (118),  
explosiveGas (119),  
fire (120),  
flood (121),  
highHumidity (122),  
highTemperature (123),  
highWind (124),  
iceBuildUp (125),  
intrusionDetection (126),  
lowFuel (127),  
lowHumidity (128),  
lowCablePressure (129),  
lowTemperature (130),  
lowWater (131),  
smoke (132),  
toxicGas (133),  
coolingSystemFailure (134),  
externalEquipmentFailure (135),  
externalPointFailure (136),  
-- Values 137-150 are reserved for environmental alarm related  
-- probable causes  
-- The following are used with Processing error alarm.  
storageCapacityProblem (151),  
memoryMismatch (152),  
  
corruptData (153),  
outOfCPUCycles (154),  
sfwrEnvironmentProblem (155),  
sfwrDownloadFailure (156),  
lossOfRealTime (157),  
--A processing error alarm to be issued after the system has  
--reinitialised. This will indicate  
--to the management systems that the view they have of the managed  
--system may no longer  
--be valid. Usage example: The managed  
--system issues this alarm after a reinitialization with severity  
--warning to inform the  
--management system about the event. No clearing notification will  
--be sent.  
applicationSubsystemFailure (158),  
configurationOrCustomisationError (159),  
databaseInconsistency (160),  
fileError (161),  
outOfMemory (162),  
softwareError (163),  
timeoutExpired (164),

underlyingResourceUnavailable (165),  
 versionMismatch  
 (166),  
 --Values 168-200 are reserved for processing error alarm related  
 -- probable causes.  
     bandwidthReduced (201),  
     congestion (202),  
     excessiveErrorRate (203),  
     excessiveResponseTime (204),  
     excessiveRetransmissionRate (205),  
     reducedLoggingCapability (206),  
     systemResourcesOverload (207 ),  
     -- The following were defined X.733  
     adapterError (500),  
     applicationSubsystemFailure (501),  
     bandwidthReducedX733 (502),  
     callEstablishmentError (503),  
     communicationsProtocolError (504),  
     communicationsSubsystemFailure (505),  
     configurationOrCustomizationError (506),  
     congestionX733 (507),  
     corruptData (508),  
     cpuCyclesLimitExceeded (509),  
     dataSetOrModemError (510),  
     degradedSignalX733  
 (511),  
     dteDceInterfaceError (512),  
     enclosureDoorOpenX733 (513),  
     equipmentMalfunction (514),  
     excessiveVibration (515),  
     fileErrorX733 (516),  
     fireDetected (517),  
     framingErrorX733 (518),  
     heatingVentCoolingSystemProblem (519),  
     humidityUnacceptable (520),  
     inputOutputDeviceError (521),  
     inputDeviceError (522),  
     lanError (523),  
     leakDetected (524),  
     localNodeTransmissionErrorX733 (525),  
     lossOfFrameX733 (526),  
     lossOfSignalX733 (527),  
     materialSupplyExhausted (528),  
     multiplexerProblemX733 (529),  
     outOfMemoryX733 (530),  
     ouputDeviceError (531),  
     performanceDegraded (532),  
     powerProblems (533),

pressureUnacceptable (534),

processorProblems (535),

  pumpFailureX733 (536),

  queueSizeExceeded (537),

  receiveFailureX733 (538),

  receiverFailureX733 (539),

  remoteNodeTransmissionErrorX733 (540),

  resourceAtOrNearingCapacity (541),

  responseTimeExcessive (542),

  retransmissionRateExcessive (543),

  softwareErrorX733 (544),

  softwareProgramAbnormallyTerminated (545),

  softwareProgramError (546),

  storageCapacityProblemX733 (547),

  temperatureUnacceptable (548),

  thresholdCrossed (549),

  timingProblemX733 (550),

  toxicLeakDetected (551),

  transmitFailureX733 (552),

  transmitterFailure (553),

  underlyingResourceUnavailable (554),

  versionMismatchX733 (555),

-- The following are defined in X.736

authenticationFailure (600),

  breachOfConfidentiality (601),

  cableTamper (602),

  delayedInformation (603),

  denialOfService (604),

  duplicateInformation (605),

  informationMissing (606),

  informationModificationDetected (607),

  informationOutOfSequence (608),

  keyExpired (609),

  nonRepudiationFailure (610),

  outOfHoursActivity (611),

  outOfService (612),

  proceduralError (613),

  unauthorizedAccessAttempt (614),

  unexpectedInformation (615),

  other (1024)

}

IANAItuEventType ::= TEXTUAL-CONVENTION

  STATUS current

  DESCRIPTION

"The ITU event Type values.

The Internet Assigned Number Authority (IANA) is responsible for the assignment of the enumerations

in this TC.

Request should come in the form of well-formed SMI [RFC2578] for enumeration names that are unique and sufficiently descriptive.

See <http://www.iana.org> "

#### REFERENCE

"ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

#### SYNTAX INTEGER

```
{
  other (1),
  communicationsAlarm (2),
  qualityOfServiceAlarm (3),
  processingErrorAlarm (4),
  equipmentAlarm (5),
  environmentalAlarm (6),
  integrityViolation (7),
  operationalViolation (8),
  physicalViolation (9),
  securityServiceOrMechanismViolation (10),
  timeDomainViolation (11)
}
```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB

No license file was found, but licenses were detected in source scan.

RMON2-MIB DEFINITIONS ::= BEGIN

IMPORTS

```
MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,
Gauge32, IpAddress, TimeTicks, mib-2 FROM SNMPv2-SMI
TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp
FROM SNMPv2-TC
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
ifIndex FROM IF-MIB
OwnerString, statistics, history, hosts,
matrix, filter, etherStatsEntry, historyControlEntry,
```

hostControlEntry, matrixControlEntry, filterEntry,  
channelEntry FROM RMON-MIB  
tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,

ringStationControlEntry, sourceRoutingStatsEntry  
FROM TOKEN-RING-RMON-MIB;  
-- Remote Network Monitoring MIB

rmon MODULE-IDENTITY

LAST-UPDATED "200605020000Z" -- May 2, 2006

ORGANIZATION "IETF RMON

MIB Working Group"

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DESCRIPTION

"The MIB module for managing remote monitoring  
device implementations. This MIB module  
extends the architecture introduced in the original  
RMON MIB as specified in RFC 2819.

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this MIB module is part of RFC 4502; see the RFC itself for  
full legal notices."

REVISION "200605020000Z" -- May 2, 2006

DESCRIPTION

"This version updates the proposed-standard version of the  
RMON2 MIB (published  
as RFC 2021) by adding 2 new  
enumerations to the nlMatrixTopNControlRateBase object and  
4 new enumerations to the alMatrixTopNControlRateBase object.  
These new enumerations support the creation of high-capacity  
topN reports in the High Capacity RMON MIB [RFC3273].

Additionally, the following objects have been deprecated, as

they have not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard:

probeDownloadFile  
probeDownloadTFTPServer  
probeDownloadAction  
probeDownloadStatus

serialMode  
serialProtocol  
serialTimeout  
serialModemInitString  
serialModemHangUpString  
serialModemConnectResp  
serialModemNoConnectResp  
serialDialoutTimeout  
serialStatus  
serialConnectDestIpAddress  
serialConnectType  
serialConnectDialString  
serialConnectSwitchConnectSeq  
serialConnectSwitchDisconnectSeq  
serialConnectSwitchResetSeq  
serialConnectOwner  
serialConnectStatus  
netConfigIpAddress  
netConfigSubnetMask  
netConfigStatus  
netDefaultGateway  
tokenRingMLStats2DroppedFrames  
tokenRingMLStats2CreateTime  
tokenRingPStats2DroppedFrames  
tokenRingPStats2CreateTime  
ringStationControl2DroppedFrames  
ringStationControl2CreateTime  
sourceRoutingStats2DroppedFrames  
sourceRoutingStats2CreateTime  
trapDestIndex  
trapDestCommunity  
trapDestProtocol  
trapDestAddress  
trapDestOwner  
trapDestStatus

In addition, two corrections were made. The LastCreateTime

Textual Convention had been defined with a base type of another textual convention, which isn't allowed in SMIV2. The definition has been modified to use TimeTicks as the base type.

Further,  
the SerialConfigEntry SEQUENCE definition included sub-typing information that is not allowed in SMIV2. This information has been deleted. Ranges were added to a number of objects and textual-conventions to constrain their maximum (and sometimes minimum) sizes. The addition of these ranges documents existing practice for these objects. These objects

are:

- ControlString
- protocolDirID
- protocolDirParameters
- addressMapNetworkAddress
- nlHostAddress
- nlMatrixSDSourceAddress
- nlMatrixSDDestAddress
- nlMatrixDSSourceAddress
- nlMatrixDSDestAddress
- nlMatrixTopNSourceAddress
- nlMatrixTopNDestAddress
- alHostEntry
- alMatrixSDEntry
- alMatrixDSEntry
- alMatrixTopNSourceAddress
- alMatrixTopNDestAddress

Finally, the TimeFilter TC has been updated to encourage agent implementations that allow a MIB walk to behave well even when performed by an application that is not aware of the special TimeFilter semantics."

REVISION "200207080000Z" -- 08 July, 2002

DESCRIPTION

"Added new enumerations to support the High-Capacity RMON MIB as defined in RFC 3273. Also fixed some typos and added clarifications."

REVISION "199605270000Z" -- 27 May, 1996

DESCRIPTION

"Original version. Published as RFC 2021."

::= { mib-2 16 }



-- { rmon 1 } through { rmon 10 } are defined in RMON and  
-- the Token Ring RMON MIB [RFC1513]

protocolDir OBJECT IDENTIFIER ::= { rmon 11 }  
protocolDist OBJECT IDENTIFIER ::= { rmon 12 }  
addressMap OBJECT IDENTIFIER ::= { rmon 13 }  
nlHost OBJECT IDENTIFIER ::= { rmon 14 }  
nlMatrix OBJECT IDENTIFIER ::= { rmon 15 }  
alHost OBJECT IDENTIFIER ::= { rmon 16 }  
alMatrix OBJECT IDENTIFIER  
::= { rmon 17 }  
usrHistory OBJECT IDENTIFIER ::= { rmon 18 }  
probeConfig OBJECT IDENTIFIER ::= { rmon 19 }  
rmonConformance OBJECT IDENTIFIER ::= { rmon 20 }

-- Textual Conventions

ZeroBasedCounter32 ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that counts events with the following semantics: objects of this type will be set to zero(0) on creation and will thereafter count appropriate events, wrapping back to zero(0) when the value  $2^{32}$  is reached.

Provided that an application discovers the new object within the minimum time to wrap, it can use the initial value as a delta since it last polled the table of which this object is part. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

Typically, this TC is used in tables where the INDEX space is constantly changing and/or the TimeFilter mechanism is in use."

SYNTAX Gauge32

LastCreateTime ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This TC describes an object that stores the value of the sysUpTime object at the last time its entry was created.

This can be used for polling applications to determine that an entry has been deleted and re-created between polls, causing an otherwise undetectable discontinuity in the data.

If sysUpTime is reset to zero as a result of a re-initialization of the network management (sub)system, then the values of all LastCreateTime objects are also reset. However, after approximately 497 days without a re-initialization, the sysUpTime object will reach  $2^{32}-1$  and then increment to zero; in this case, existing values of TimeStamp objects do not change.

This can lead to

ambiguities in the value of TimeStamp objects."

SYNTAX TimeTicks

TimeFilter ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"To be used for the index to a table. Allows an application to download only those rows changed since a particular time.

Note that this is not a history mechanism. Only current values of underlying objects are returned; saved instance values associated with particular values of sysUpTime are not.

An entry is considered changed if the value of any object in the entry changes, if the row is created, or if any object in the entry is created or deleted. Note that deleted entries cannot be detected or downloaded.

A time-filtered conceptual table is created by inserting a single object of SYNTAX TimeFilter as the first INDEX component in a copy of an existing basic conceptual table (i.e., any SEQUENCE without a TimeFilter INDEX component). Thus, for

each conceptual entry 'I' in the basic table, there exists N conceptual entries in the time-filtered version, indexed N.I, where 'N' is equal to the value of sysUpTime.

When an application retrieves conceptual instances from a time-filtered table, and an INDEX value is provided for the TimeFilter INDEX component 'N', the agent will only consider returning basic conceptual entries (e.g., 'fooColumn.N.I') if any column within the basic conceptual entry has changed since sysUpTime 'N'. If not, the basic conceptual entry will be ignored for the particular retrieval operation.

When sysUpTime is equal to zero, this table shall be empty.

One conceptual entry exists for each past value of sysUpTime, except that the whole table is purged should sysUpTime wrap.

As an entry in a time-filtered table is updated (i.e., one of the columns in the basic conceptual table is changed), new conceptual

entries are also created in the time-filtered version

(which still shares the now updated object values with all other instances). The number of unique time-filtered instances that are created is determined by the value of sysUpTime at which the basic entry was last updated. One unique instance will exist for each value of sysUpTime at the last update time for the row. However, a new TimeFilter index instance is created for each new sysUpTime value. The TimeFilter index values not associated with entry updates are called duplicate time-filtered instances.

After some deployment experience, it has been determined that a time-filtered table is more efficient if the agent stops a MIB walk operation by skipping over rows with a TimeFilter index value higher than the value in the received GetNext/GetBulk request. That is, instead of incrementing a TimeFilter index value, the agent will continue to the next

object or table. As a consequence, GetNext or GetBulk operations will provide only one pass through a time-filtered table.

It is suggested that an agent implement a time-filtered table in this manner to improve performance and avoid a MIB walk getting stuck in time-filtered tables. It is, however, still acceptable for an agent to implement a time-filtered table in the traditional manner (i.e., every conceptual time-filtered instance is returned in GetNext and GetBulk PDU responses), and management applications must be able to deal with such traditional implementations.

See the appendix for further discussion of this textual convention.

The following example is provided to demonstrate TimeFilter behavior:

Consider the following basic conceptual table, basicFooTable.  
(Note that the basic version of a time-filtered table may not actually be defined.)

basicFooTable:

```
basicFooTable ...  
INDEX { fooIndex }
```

```
BasicFooEntry {  
  fooIndex  Integer32,  
  fooCounts Counter32  
}
```

For this example, the basicFooTable contains two static conceptual entries (fooIndex equals '1' and '2'), created at time zero. It also contains one dynamic conceptual entry (fooIndex equals '3'), which is created at time '3' and deleted at time '7'.

The time-filtered version of the basicFooTable could be defined as follows:

FooTable:

```
fooTable ...  
INDEX { fooTimeMark, fooIndex }
```

```
FooEntry {  
  
  fooTimeMark TimeFilter,  
  fooIndex  Integer32,  
  fooCounts Counter32  
}
```

Note that entries exist in the time-filtered conceptual table only if they actually exist in the underlying (basic) table.

For this example, the fooTable will have three underlying basic entries (fooIndex == 1, 2, and 3), with the following activity (for sysUpTime equal 0 to 9):

- fooEntry.N.1 is created at time '0' and most recently updated at time '6' to the value '5'.

- fooEntry.N.2 is created at time '0' and most recently updated at time '8' to the value '9'.
- fooEntry.N.3 is created at time '3', updated at time '5' to the value '17', and deleted at time '7'.

The following tables show the values that would be returned for MIB walk operations with various TimeFilter values, done at different times. An application issues a retrieval request at time 'T', with a TimeFilter value, 'N' (typically set to a lower value, such as the value of sysUpTime at the last polling cycle).

The following values would be returned in a MIB walk of fooCounts.N if T equals '0' and N equals '0':

```

fooCounts.N.I  Value
=====
fooCounts.0.1
0
fooCounts.0.2  0

```

Note that nothing is returned for fooCounts.0.3, since that entry does not exist at sysUpTime equals '0'.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '3' and N equals '0':

```

fooCounts.N.I  Value
=====
fooCounts.0.1  0
fooCounts.0.2  0
fooCounts.0.3  0
fooCounts.1.3  0
fooCounts.2.3  0
fooCounts.3.3  0

```

Note that there are no instances for T equals 1 or 2 for the first two values of N, as these entries did not change since they were created at time '0'.

Note that the current value for 'fooCounts.N.3' is returned here, even for values of N less than '3' (when the entry was created). The agent only considers the current existence of an entry in the TimeFilter algorithm, not the time when the entry was created.

Note that the instances 'fooCounts.0.3', 'fooCounts.1.3', and 'fooCounts.2.3' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '6' and N equals '3':

| fooCounts.N.I | Value |
|---------------|-------|
| fooCounts.3.1 | 5     |
| fooCounts.3.3 | 17    |
| fooCounts.4.1 | 5     |
| fooCounts.4.3 | 17    |
| fooCounts.5.1 | 5     |
| fooCounts.5.3 | 17    |
| fooCounts.6.1 | 5     |

Note that no instances for entry 'fooCounts.N.2' are returned, since it has not changed since time '3'.

Note that all instances except 'fooCounts.5.3' and 'fooCounts.6.1' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '9' and N equals '6':

| fooCounts.N.I | Value |
|---------------|-------|
| fooCounts.6.1 | 5     |
| fooCounts.6.2 | 9     |
| fooCounts.7.2 | 9     |
| fooCounts.8.2 | 9     |

Note that no instances for entry 'fooCounts.N.3' are returned, since it was deleted at time '7'.

Note that instances 'fooCounts.6.2' and 'fooCounts.7.2'

are duplicates and can be suppressed by the agent in a MIB walk."

SYNTAX TimeTicks

DataSource ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Identifies the source of the data that the associated function is configured to analyze. This source can be any interface on this device.

In order to identify a particular interface, this object shall identify the instance of the ifIndex object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1."

SYNTAX OBJECT IDENTIFIER

--

-- Protocol Directory Group

--

-- Lists the inventory of protocols the probe has the capability of monitoring and allows the addition, deletion, and configuration of entries in this list.

protocolDirLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time the protocol directory was last modified, either through insertions or deletions, or through modifications of the protocolDirAddressMapConfig, protocolDirHostConfig, or protocolDirMatrixConfig."

::= { protocolDir 1 }

protocolDirTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table lists the protocols that this agent has the capability to decode and count. There is one entry in this table for each such protocol.

These protocols represent different network-layer, transport-layer, and higher-layer

protocols. The agent should boot up with this table

preconfigured with those protocols that it knows about and wishes to monitor. Implementations are strongly encouraged to support protocols higher than the network layer (at least for the protocol distribution group), even for implementations that don't support the application-layer groups."

::= { protocolDir 2 }

protocolDirEntry OBJECT-TYPE

SYNTAX ProtocolDirEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDirTable.

An example of the indexing of this entry is protocolDirLocalIndex.8.0.0.0.1.0.0.8.0.2.0.0, which is the encoding of a length of 8, followed by 8 subids encoding the protocolDirID of 1.2048, followed by a length of 2 and the 2 subids encoding zero-valued

parameters.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { protocolDirID, protocolDirParameters }

::= { protocolDirTable 1 }

ProtocolDirEntry ::= SEQUENCE {

protocolDirID OCTET STRING,

protocolDirParameters OCTET STRING,

protocolDirLocalIndex Integer32,

protocolDirDescr DisplayString,

protocolDirType BITS,

protocolDirAddressMapConfig INTEGER,

protocolDirHostConfig INTEGER,

protocolDirMatrixConfig INTEGER,

protocolDirOwner OwnerString,

protocolDirStatus RowStatus

}

protocolDirID OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (4..128))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique identifier for a particular protocol. Standard identifiers will be defined in such a manner that they



can often be used as specifications for new protocols - i.e., a tree-structured assignment mechanism that matches the protocol encapsulation 'tree' and that has algorithmic assignment mechanisms for certain subtrees. See RFC 2074 for more details.

Despite the algorithmic mechanism, the probe will only place entries in here for those protocols it chooses to collect. In other words, it need not populate this table with all possible ethernet protocol types, nor need it create them on the fly when it sees them. Whether it does these things is a matter of product definition (cost/benefit, usability) and is up to the designer of the product.

If an entry is written to this table with a protocolDirID that the agent doesn't understand, either directly or algorithmically, the SET request will be rejected with an inconsistentName or badValue (for SNMPv1) error."  
 ::= { protocolDirEntry 1 }

protocolDirParameters OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters for the associated protocolDirID. See the associated RMON2 Protocol Identifiers document for a description of the possible parameters. There will be one octet in this string for each sub-identifier in the protocolDirID, and the parameters will appear here in the same order as the associated sub-identifiers appear in the protocolDirID.

Every node in the protocolDirID tree has a different, optional set of parameters defined (that is, the definition of parameters for a node is optional). The proper parameter value for each node is included in this string. Note that the inclusion of a parameter value in this string for each node is not optional. What is optional is that a node may have no parameters defined, in which case the parameter field for that node will be zero."  
 ::= { protocolDirEntry 2 }

protocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The locally arbitrary but unique identifier associated with this protocolDir entry.

The value for each supported protocol must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization, except that if a protocol is deleted and re-created, it must be re-created with a new value that has not been used since the last re-initialization.

The specific value is meaningful only within a given SNMP entity. A protocolDirLocalIndex must not be re-used until the next agent restart in the event that the protocol directory entry is deleted."

::= { protocolDirEntry 3 }

protocolDirDescr OBJECT-TYPE

SYNTAX DisplayString (SIZE (1..64))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A textual description of the protocol encapsulation. A probe may choose to describe only a subset of the entire encapsulation (e.g., only the highest layer).

This object is intended for human consumption only.

This object may not be modified if the associated protocolDirStatus object is equal to active(1)."

::= { protocolDirEntry 4 }

protocolDirType OBJECT-TYPE

SYNTAX BITS {  
    extensible(0),  
    addressRecognitionCapable(1)  
}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object describes 2 attributes of this protocol directory entry.

The presence or absence of the 'extensible' bit describes whether this protocol directory entry can be extended by the user by creating protocol directory entries that are children of this protocol.

An example of an entry that will often allow extensibility is

'ip.udp'. The probe may automatically populate some children of this node, such as 'ip.udp.snmp' and 'ip.udp.dns'.

A probe administrator or user may also populate additional children via remote SNMP requests that create entries in this table. When a child node is added for a protocol for which the probe has no built-in support extending a parent node (for which the probe does have built-in support), that child node is not extendable. This is termed 'limited extensibility'.

When a child node is added through this extensibility mechanism, the values of protocolDirLocalIndex and protocolDirType shall be assigned by the agent.

The other objects in the entry will be assigned by the manager who is creating the new entry.

This object also describes whether this agent can recognize addresses for this protocol, should it be a network-level protocol. That is, while a probe may be able to recognize packets of a particular network-layer protocol and count them, it takes additional logic to be able to recognize the addresses in this protocol and to populate network-layer or application-layer tables with the addresses in this protocol. If this bit is set, the agent will recognize network-layer addresses for this protocol and populate the network- and application-layer host and matrix tables with these protocols.

Note that when an entry is created, the agent will supply values for the bits that match the capabilities of the agent

with respect to this protocol. Note that since row creations usually exercise the limited extensibility feature, these

bits will usually be set to zero."

::= { protocolDirEntry 5 }

#### protocolDirAddressMapConfig OBJECT-TYPE

```
SYNTAX  INTEGER {  
    notSupported(1),  
    supportedOff(2),  
    supportedOn(3)  
}
```

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"This object describes and configures the probe's support for address mapping for this protocol. When the probe creates entries in this table for all protocols that it understands,

it will set the entry to notSupported(1) if it doesn't have the capability to perform address mapping for the protocol or if this protocol is not a network-layer protocol. When an entry is created in this table by a management operation as part of the limited extensibility feature,

the probe must set

this value to notSupported(1), because limited extensibility of the protocolDirTable does not extend to interpreting addresses of the extended protocols.

If the value of this object is notSupported(1), the probe will not perform address mapping for this protocol and shall not allow this object to be changed to any other value.

If the value of this object is supportedOn(3), the probe supports address mapping for this protocol and is configured to perform address mapping for this protocol for all addressMappingControlEntries and all interfaces.

If the value of this object is supportedOff(2), the probe supports address mapping for this protocol but is configured to not perform address mapping for this protocol for any addressMappingControlEntries and all interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in

the addressMappingTable."

::= { protocolDirEntry 6 }

#### protocolDirHostConfig OBJECT-TYPE

```
SYNTAX  INTEGER {  
    notSupported(1),
```

```
        supportedOff(2),
        supportedOn(3)
    }
MAX-ACCESS read-create
STATUS current
DESCRIPTION
```

"This object describes and configures the probe's support for the network-layer and application-layer host tables for this protocol. When the probe creates entries in this table for all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlHostTable for this protocol or if the alHostTable is implemented but doesn't have the capability to track this protocol. Note that if the alHostTable is implemented, the probe may only support a protocol if it is supported in both the nlHostTable and the alHostTable.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-layer protocol for which the probe recognizes addresses, and

thus the probe will populate the nlHostTable and alHostTable with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track the nlHostTable or alHostTable for this protocol and shall not allow this object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of the nlHostTable and alHostTable for this protocol and is configured to track both tables for this protocol for all control entries and all interfaces.

If the value of this object is supportedOff(2), the probe supports tracking of the nlHostTable and alHostTable for this protocol but is configured to not track these tables

for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlHostTable and alHostTable.

Note that since each alHostEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."

::= { protocolDirEntry 7 }

protocolDirMatrixConfig OBJECT-TYPE

```
SYNTAX INTEGER {  
    notSupported(1),  
    supportedOff(2),  
    supportedOn(3)  
}
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object describes and configures the probe's support for the network-layer and application-layer matrix tables for this protocol. When the probe creates entries

in this table for

all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlMatrixTables for this protocol or if the alMatrixTables are implemented but don't have the capability to track this protocol. Note that if the alMatrix tables are implemented, the probe may only support a protocol if it is supported in both of the nlMatrixTables and both of the alMatrixTables.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-

layer protocol for which the probe recognizes addresses, and thus the probe will populate both of the nlMatrixTables and both of the alMatrixTables with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track either of the nlMatrixTables or the alMatrixTables

for this protocol and shall not allow this

object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol and is configured to track these tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol but is configured to not track these tables for this protocol for any control entries or interfaces.

Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlMatrixTables and the alMatrixTables.

Note that since each alMatrixEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."  
::= { protocolDirEntry 8 }

protocolDirOwner OBJECT-TYPE

SYNTAX OwnerString  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDirEntry 9 }

protocolDirStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this protocol directory entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlHostTable, nlMatrixSDTable, nlMatrixDSTable, alHostTable, alMatrixSDTable, and alMatrixDSTable shall be deleted."

::= { protocolDirEntry 10 }

--  
-- Protocol Distribution Group (protocolDist)  
--  
-- Collects the relative amounts of octets and packets for the  
-- different protocols detected on a network segment.  
-- protocolDistControlTable,  
-- protocolDistStatsTable

protocolDistControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Controls the setup of protocol type distribution statistics tables.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of protocol statistics is available.

Rationale:

This table controls collection of very basic statistics for any or all of the protocols detected on a given interface. An NMS can use this table to quickly determine bandwidth allocation utilized by different protocols.

A media-specific statistics collection could also be configured (e.g., etherStats, trPStats) to easily obtain total frame, octet, and droppedEvents for the same interface."

::= { protocolDist 1 }

protocolDistControlEntry OBJECT-TYPE

SYNTAX ProtocolDistControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistControlTable.

An example of the indexing of this entry is protocolDistControlDroppedFrames.7"

INDEX { protocolDistControlIndex }

::= { protocolDistControlTable 1 }

```
ProtocolDistControlEntry ::= SEQUENCE {
    protocolDistControlIndex      Integer32,
    protocolDistControlDataSource DataSource,
    protocolDistControlDroppedFrames Counter32,
    protocolDistControlCreateTime LastCreateTime,
    protocolDistControlOwner      OwnerString,
    protocolDistControlStatus     RowStatus
}
```



protocolDistControlIndex

OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A unique index for this protocolDistControlEntry."

::= { protocolDistControlEntry 1 }

protocolDistControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for the this protocol distribution.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated protocolDistControlStatus object is equal to active(1)."

::= { protocolDistControlEntry 2 }

protocolDistControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents,

but

that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { protocolDistControlEntry 3 }

protocolDistControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { protocolDistControlEntry 4 }

protocolDistControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { protocolDistControlEntry 5 }

protocolDistControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this row.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the protocolDistStatsTable shall be deleted."

::= { protocolDistControlEntry 6 }

-- per interface protocol distribution statistics table

protocolDistStatsTable OBJECT-TYPE

SYNTAX SEQUENCE OF ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry is made in this table for every protocol in the protocolDirTable that has been seen in at least one packet. Counters are updated

in this table for every protocol type

that is encountered when parsing a packet, but no counters are

updated for packets with MAC-layer errors.

Note that if a protocolDirEntry is deleted, all associated entries in this table are removed."

::= { protocolDist 2 }

protocolDistStatsEntry OBJECT-TYPE

SYNTAX ProtocolDistStatsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the protocolDistStatsTable.

The index is composed of the protocolDistControlIndex of the associated protocolDistControlEntry, followed by the protocolDirLocalIndex of the associated protocol that this entry represents. In other words, the index identifies the protocol distribution an entry is a part of and the particular protocol that it represents.

An example of the indexing of this entry is

protocolDistStatsPkts.1.18"

INDEX { protocolDistControlIndex,  
protocolDirLocalIndex }

::= { protocolDistStatsTable 1 }

ProtocolDistStatsEntry ::= SEQUENCE {

protocolDistStatsPkts ZeroBasedCounter32,

protocolDistStatsOctets ZeroBasedCounter32

}

protocolDistStatsPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type received without errors. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { protocolDistStatsEntry 1 }

protocolDistStatsOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type

received since it was added to the protocolDistStatsTable (excluding framing bits, but including FCS octets), except for those octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { protocolDistStatsEntry 2 }

--

-- Address Map Group (addressMap)

--

-- Lists MAC address to network address bindings discovered by the probe and what interface they were last seen on.

-- addressMapControlTable

-- addressMapTable

addressMapInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an address mapping entry has been inserted into the addressMapTable. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

Note that the table size can be determined by subtracting addressMapDeletes from addressMapInserts."

::= { addressMap 1 }

addressMapDeletes

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an address mapping entry has been deleted from the addressMapTable (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

Note that the table size can be determined by subtracting addressMapDeletes from addressMapInserts."

::= { addressMap 2 }

addressMapMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the addressMapTable. The probe will not create more than this number of entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { addressMap 3 }

addressMapControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table to control the collection of mappings from network layer address to physical address to interface.

Note that this is not like the typical RMON controlTable and dataTable in which each entry creates its own data table. Each entry in this table enables the discovery of addresses on a new interface and the placement of address

mappings into the central addressMapTable.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of address mappings is available."

::= { addressMap 4 }

addressMapControlEntry OBJECT-TYPE

SYNTAX AddressMapControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapControlTable.

An example of the indexing of this entry is

addressMapControlDroppedFrames.1"

INDEX { addressMapControlIndex }

::= { addressMapControlTable 1 }

AddressMapControlEntry ::= SEQUENCE {

addressMapControlIndex Integer32,

addressMapControlDataSource DataSource,

addressMapControlDroppedFrames Counter32,

addressMapControlOwner OwnerString,

addressMapControlStatus RowStatus

}

addressMapControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

not-accessible

STATUS current

DESCRIPTION

"A unique index for this entry in the addressMapControlTable."

::= { addressMapControlEntry 1 }

addressMapControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The source of data for this addressMapControlEntry."

::= { addressMapControlEntry 2 }

addressMapControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { addressMapControlEntry 3 }

addressMapControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { addressMapControlEntry 4 }

addressMapControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this addressMap control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the addressMapTable shall be deleted."

::= { addressMapControlEntry 5 }

addressMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of mappings from network layer address to physical address to interface.

The probe will add entries to this table based on the source MAC and network addresses seen in packets without MAC-level errors. The probe will populate this table for all protocols

in the protocol directory table whose value of protocolDirAddressMapConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirAddressMapConfig value of supportedOff(2)."  
 ::= { addressMap 5 }

addressMapEntry OBJECT-TYPE

SYNTAX AddressMapEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the addressMapTable.

The protocolDirLocalIndex in the index identifies the network layer protocol of the addressMapNetworkAddress.

An example of the indexing of this entry is

addressMapSource.783495.18.4.128.2.6.6.11.1.3.6.1.2.1.2.2.1.1.1.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { addressMapTimeMark, protocolDirLocalIndex,  
 addressMapNetworkAddress, addressMapSource }

::= { addressMapTable 1 }

AddressMapEntry ::= SEQUENCE {

addressMapTimeMark TimeFilter,

addressMapNetworkAddress OCTET STRING,

addressMapSource OBJECT IDENTIFIER,

addressMapPhysicalAddress OCTET STRING,

addressMapLastChange TimeStamp

}

addressMapTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { addressMapEntry 1 }



addressMapNetworkAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network address for this relation.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of ip, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { addressMapEntry 2 }

addressMapSource OBJECT-TYPE

SYNTAX OBJECT IDENTIFIER

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The interface or port on which the associated network address was most recently seen.

If this address mapping was discovered on an interface, this object shall

identify the instance of the ifIndex

object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from interface #1, this object would be set to ifIndex.1.

If this address mapping was discovered on a port, this object shall identify the instance of the rptrGroupPortIndex object, defined in [RFC2108], for the desired port.

For example, if an entry were to receive data from group #1, port #1, this object would be set to rptrGroupPortIndex.1.1.

Note that while the dataSource associated with this entry may only point to index objects, this object may at times point to repeater port objects. This situation occurs when the dataSource points to an interface that is a locally attached repeater and the agent has additional information

about the source port of traffic seen on that repeater."  
::= { addressMapEntry 3 }

addressMapPhysicalAddress

OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The last source physical address on which the associated network address was seen. If the protocol of the associated network address was encapsulated inside of a network-level or higher protocol, this will be the address of the next-lower protocol with the addressRecognitionCapable bit enabled and will be formatted as specified for that protocol."

::= { addressMapEntry 4 }

addressMapLastChange OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime at the time this entry was last created or the values of the physical address changed.

This can be used to help detect duplicate address problems, in which case this object will be updated frequently."

::= { addressMapEntry 5 }

--

-- Network Layer Host Group

--

--

Counts the amount of traffic sent from and to each network address

-- discovered by the probe.

-- Note that while the hlHostControlTable also has objects that

-- control an optional alHostTable, implementation of the alHostTable is

-- not required to fully implement this group.

hlHostControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HIHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) host table control

entries.

These entries will enable the collection of the network- and application-level host tables indexed by network addresses. Both the network- and application-level host tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with which they can be implemented as a single datastore. (Note that if an implementation stores application-layer host records

in

memory, it can derive network-layer host records from them.)

Entries in the nlHostTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alHostTable, entries in the alHostTable will be created on behalf of each entry in this table.

Implementations are encouraged to add an entry per monitored interface upon initialization so that a default collection of host statistics is available."

```
::= { nlHost 1 }
```

hlHostControlEntry OBJECT-TYPE

SYNTAX HIHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

```
hlHostControlNIDroppedFrames.1"
```

```
INDEX { hlHostControlIndex }
```

```
::= { hlHostControlTable 1 }
```

```
HIHostControlEntry ::= SEQUENCE {
```

```
hlHostControlIndex Integer32,
```

```
hlHostControlDataSource
```

```
DataSource,
```

```
hlHostControlNIDroppedFrames Counter32,
```

```
hlHostControlNIInserts Counter32,
```

```
hlHostControlNIDeletes Counter32,
```

```
hlHostControlNIMaxDesiredEntries Integer32,
```

```
hlHostControlAlDroppedFrames Counter32,
```

```
hlHostControlAlInserts Counter32,
```

```
hlHostControlAlDeletes Counter32,
```

```
hlHostControlAlMaxDesiredEntries Integer32,  
hlHostControlOwner      OwnerString,  
hlHostControlStatus     RowStatus  
}
```

#### hlHostControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An index that uniquely identifies an entry in the hlHostControlTable. Each such entry defines a function that discovers hosts on a particular interface and places statistics about them in the nlHostTable, and optionally in the alHostTable, on behalf of this hlHostControlEntry."

::= { hlHostControlEntry 1 }

#### hlHostControlDataSource

##### OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The source of data for the associated host tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated hlHostControlStatus object is equal to active(1)."

::= { hlHostControlEntry 2 }

#### hlHostControlNIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for the associated nlHost entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the nlHostTable is inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hlHostControlEntry 3 }

#### hlHostControlNIInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an nlHost entry has been inserted into the nlHost table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNIDeletes from hlHostControlNIInserts."

::= { hlHostControlEntry 4 }

#### hlHostControlNIDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may

delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNIDeletes from hlHostControlNIInserts."  
::= { hlHostControlEntry 5 }

#### hlHostControlNIMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The maximum number of entries that are desired in the nlHostTable on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table. If the associated

hlHostControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlHostControlEntry 6 }

#### hlHostControlAIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for the associated

alHost entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the alHostTable is not implemented or is inactive

because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { hlHostControlEntry 7 }
```

#### hlHostControlAllInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an alHost entry has been inserted into the alHost table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlAllDeletes from hlHostControlAllInserts."

```
::= { hlHostControlEntry 8 }
```

#### hlHostControlAllDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an alHost entry has been deleted from the alHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For

example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlAlDeletes from hlHostControlAlInserts."

::= { hlHostControlEntry 9 }

hlHostControlAlMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the alHost table on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlHostControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

::= { hlHostControlEntry 10 }

hlHostControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."



::= { hIHostControlEntry 11 }

hIHostControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this hIHostControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nIHostTable and aIHostTable shall be deleted."

::= { hIHostControlEntry 12 }

nIHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A collection of statistics for a particular network layer address that has been discovered on an interface of this device.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirHostConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses seen as the source or destination address in all packets with no MAC errors, and will increment octet and packet counts in the table for all packets with no MAC errors."

::= { nIHost 2 }

nIHostEntry OBJECT-TYPE

SYNTAX NIHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nIHostTable.

The hlHostControlIndex value in the index identifies the hlHostControlEntry on whose behalf this entry was created. The protocolDirLocalIndex value in the index identifies the network layer protocol of the nlHostAddress.

An example of the indexing of this entry is  
nlHostOutPkts.1.783495.18.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

```
INDEX { hlHostControlIndex, nlHostTimeMark,  
        protocolDirLocalIndex, nlHostAddress }  
::= { nlHostTable 1 }
```

```
NIHostEntry ::= SEQUENCE {  
    nlHostTimeMark      TimeFilter,  
    nlHostAddress       OCTET STRING,  
    nlHostInPkts        ZeroBasedCounter32,  
    nlHostOutPkts       ZeroBasedCounter32,  
    nlHostInOctets      ZeroBasedCounter32,  
    nlHostOutOctets     ZeroBasedCounter32,  
    nlHostOutMacNonUnicastPkts ZeroBasedCounter32,  
    nlHostCreateTime    LastCreateTime  
}
```

```
nlHostTimeMark OBJECT-TYPE  
SYNTAX      TimeFilter  
MAX-ACCESS not-accessible  
STATUS      current  
DESCRIPTION  
    "A TimeFilter for this entry. See the TimeFilter textual  
    convention to see how this works."  
::= { nlHostEntry 1 }
```

```
nlHostAddress OBJECT-TYPE  
SYNTAX      OCTET STRING (SIZE (1..255))  
MAX-ACCESS not-accessible  
STATUS      current  
DESCRIPTION  
    "The network address for this nlHostEntry.
```

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlHostEntry 2 }

#### nlHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted to

this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 3 }

#### nlHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted by this address since it was added to the nlHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nlHostEntry 4 }

#### nlHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address since it was added to the nlHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular

protocol frames but includes the entire packet that contained the protocol."

::= { nIHostEntry 5 }

#### nIHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of octets transmitted by this address since it was added to the nIHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::=

{ nIHostEntry 6 }

#### nIHostOutMacNonUnicastPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of packets without errors transmitted by this address that were directed to any MAC broadcast addresses or to any MAC multicast addresses since this host was added to the nIHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nIHostEntry 7 }

#### nIHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nIHostEntry 8 }

--

-- Network Layer Matrix

Group

--

-- Counts the amount of traffic sent between each pair of network addresses discovered by the probe.

-- Note that while the hlMatrixControlTable also has objects that

-- control optional alMatrixTables, implementation of the

-- alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of higher-layer (i.e., non-MAC) matrix control entries.

These entries will enable the collection of the network- and application-level matrix tables containing conversation statistics indexed by pairs of network addresses.

Both the network- and application-level matrix tables are controlled by this table so that they will both be created and deleted at the same time, further increasing the ease with which they can be implemented as a single datastore. (Note that if an implementation stores application-layer matrix records

in memory, it can derive network-layer matrix records from them.)

Entries in the nlMatrixSDTable and nlMatrixDSTable will be created on behalf of each entry in this table. Additionally, if this probe implements the alMatrix tables, entries in the alMatrix tables will be created on behalf of each entry in this table."

::= { nlMatrix 1 }

hlMatrixControlEntry OBJECT-TYPE

SYNTAX HlMatrixControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlMatrixControlTable.

An example of indexing of this entry is

hlMatrixControlNIDroppedFrames.1"

INDEX { hlMatrixControlIndex }

::= { hlMatrixControlTable 1 }

```

HlMatrixControlEntry ::= SEQUENCE {
    hlMatrixControlIndex      Integer32,
    hlMatrixControlDataSource  DataSource,
    hlMatrixControlNIDroppedFrames
        Counter32,
    hlMatrixControlNIInserts   Counter32,
    hlMatrixControlNIDeletes   Counter32,
    hlMatrixControlNIMaxDesiredEntries Integer32,
    hlMatrixControlAIDroppedFrames Counter32,
    hlMatrixControlAIInserts   Counter32,
    hlMatrixControlAIDeletes   Counter32,
    hlMatrixControlAIMaxDesiredEntries Integer32,
    hlMatrixControlOwner       OwnerString,
    hlMatrixControlStatus      RowStatus
}

```

#### hlMatrixControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"An index that uniquely identifies an entry in the hlMatrixControlTable. Each such entry defines a function that discovers conversations on a particular interface and places statistics about them in the nlMatrixSDTable and the nlMatrixDSTable, and optionally the alMatrixSDTable and alMatrixDSTable, on

behalf of this

hlMatrixControlEntry."

::= { hlMatrixControlEntry 1 }

#### hlMatrixControlDataSource OBJECT-TYPE

SYNTAX DataSource

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The source of the data for the associated matrix tables.

The statistics in this group reflect all packets on the local network segment attached to the identified interface.

This object may not be modified if the associated hlMatrixControlStatus object is equal to active(1)."

::= { hLMatrixControlEntry 2 }

#### hLMatrixControlNIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of

some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the nLMatrixTables are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { hLMatrixControlEntry 3 }

#### hLMatrixControlNIIInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an nLMatrix entry has been inserted into the nLMatrix tables. If an entry is inserted,

then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both the nLMatrixSDTable and nLMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the sum of then nlMatrixSDTable and nlMatrixDSTable sizes can be determined by subtracting hlMatrixControlNIDeletes from hlMatrixControlNIInserts."

::= { hlMatrixControlEntry 4 }

hlMatrixControlNIDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of times an nlMatrix entry has been deleted from the nlMatrix tables (for any reason). If an entry is deleted, then inserted, and then deleted, this counter

will be incremented by 2. The deletion of a conversation from both the nlMatrixSDTable and nlMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlNIDeletes from hlMatrixControlNIInserts."

::= { hlMatrixControlEntry 5 }

hlMatrixControlNIMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of entries that are desired in the nlMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number



of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

```
::= { hlMatrixControlEntry 6 }
```

#### hlMatrixControlAIDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the alMatrixTables are not implemented or are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { hlMatrixControlEntry 7 }
```

#### hlMatrixControlAllInserts OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an alMatrix entry has been inserted into the alMatrix tables. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both

the alMatrixSDTable and alMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlAIDeletes from hlMatrixControlAllInserts."

```
::= { hlMatrixControlEntry
8 }
```

#### hlMatrixControlAIDeletes OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of times an alMatrix entry has been deleted from the alMatrix tables. If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2. The deletion of a conversation from both the alMatrixSDTable and alMatrixDSTable shall be counted as two deletions (even though every deletion from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note

that the table size can be determined by subtracting hlMatrixControlAIDeletes from hlMatrixControlAllInserts."

```
::= { hlMatrixControlEntry 9 }
```

#### hlMatrixControlAllMaxDesiredEntries OBJECT-TYPE

SYNTAX Integer32 (-1..2147483647)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The maximum number of entries that are desired in the alMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."

```
::= { hlMatrixControlEntry 10 }
```

hlMatrixControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

```
::= { hlMatrixControlEntry 11 }
```

hlMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this hlMatrixControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixSDTable, nlMatrixDSTable, alMatrixSDTable, and alMatrixDSTable

shall be deleted by the agent."

```
::= { hlMatrixControlEntry 12 }
```

nlMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all conversations from a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no

MAC errors and will increment

octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixDSTable with the same source address and destination address."

::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE

SYNTAX NIMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created.

The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

An example of the indexing of this table is

nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

Note that some combinations of index values may result in an

index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,  
        protocolDirLocalIndex,  
        nlMatrixSDSourceAddress, nlMatrixSDDestAddress }  
 ::= { nlMatrixSDTable 1 }
```

```
NlMatrixSDEntry ::= SEQUENCE {  
    nlMatrixSDTimeMark      TimeFilter,  
    nlMatrixSDSourceAddress OCTET STRING,  
    nlMatrixSDDestAddress  OCTET STRING,  
    nlMatrixSDPkts         ZeroBasedCounter32,  
    nlMatrixSDOctets       ZeroBasedCounter32,  
    nlMatrixSDCreateTime   LastCreateTime  
}
```

nlMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

```
::= { nlMatrixSDEntry 1 }
```

nlMatrixSDSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network source address for this nlMatrixSDEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

```
::= { nlMatrixSDEntry 2 }
```

nlMatrixSDDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this  
nlMatrixSDEntry.

This is represented as an octet string with  
specific semantics and length as identified  
by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an

encapsulation of IP, this object is encoded as a length  
octet of 4, followed by the 4 octets of the IP address,  
in network byte order."

::= { nlMatrixSDEntry 3 }

nlMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the  
source address to the destination address since this entry was  
added to the nlMatrixSDTable. Note that this is the number of  
link-layer packets, so if a single network-layer packet is  
fragmented into several link-layer frames, this counter is  
incremented several times."

::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to  
  
the destination address since this entry was added to the  
nlMatrixSDTable (excluding framing bits, but  
including FCS octets), excluding octets in packets that  
contained errors.

Note that this doesn't count just those octets in the particular  
protocol frames but includes the entire packet that contained  
the protocol."

::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nlMatrixSDEntry 6 }

-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of traffic matrix entries that collect statistics for conversations between two network-level addresses. This table is indexed first by the destination address and then by the source address to make it convenient to collect all conversations to a particular address.

The probe will populate this table for all network layer protocols in the protocol directory table whose value of protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors.

Further, this table will only contain entries that have a corresponding entry in the nlMatrixSDTable with the same source address and destination address."

::= { nlMatrix 3 }

nlMatrixDSEntry OBJECT-TYPE

SYNTAX NIMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the hlMatrixControlEntry on whose behalf this entry was created.

The protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixDSSourceAddress and nlMatrixDSDestAddress.

An example of the indexing of this table is

nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,  
protocolDirLocalIndex,

nlMatrixDSDestAddress,

nlMatrixDSSourceAddress }

::= { nlMatrixDSTable 1 }

NlMatrixDSEntry ::= SEQUENCE {  
nlMatrixDSTimeMark TimeFilter,  
nlMatrixDSSourceAddress OCTET STRING,  
nlMatrixDSDestAddress OCTET STRING,  
nlMatrixDSPkts ZeroBasedCounter32,  
nlMatrixDSOctets ZeroBasedCounter32,  
nlMatrixDSCreateTime LastCreateTime  
}

nlMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { nlMatrixDSEntry 1 }

nlMatrixDSSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible



STATUS current

DESCRIPTION

"The network source address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and length as identified by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixDSEntry 2 }

nlMatrixDSDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The network destination address for this nlMatrixDSEntry.

This is represented as an octet string with specific semantics and length as identified

by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixDSEntry 3 }

nlMatrixDSPkts

OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets without errors transmitted from the source address to the destination address since this entry was added to the nlMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { nIMatrixDSEntry 4 }

nIMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted from the source address to the destination address since this entry was added to the nIMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { nIMatrixDSEntry 5 }

nIMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { nIMatrixDSEntry 6 }

nIMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a report of the top N matrix entries according to a selected metric."

::= { nIMatrix 4 }

nIMatrixTopNControlEntry OBJECT-TYPE

SYNTAX NIMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row

in the nlMatrixTopNControlTable.

An example of the indexing of this table is

nlMatrixTopNControlDuration.3"

INDEX { nlMatrixTopNControlIndex }

::= { nlMatrixTopNControlTable 1 }

```
NlMatrixTopNControlEntry ::= SEQUENCE {
    nlMatrixTopNControlIndex      Integer32,
    nlMatrixTopNControlMatrixIndex Integer32,
    nlMatrixTopNControlRateBase   INTEGER,
    nlMatrixTopNControlTimeRemaining Integer32,
    nlMatrixTopNControlGeneratedReports Counter32,
    nlMatrixTopNControlDuration   Integer32,
    nlMatrixTopNControlRequestedSize Integer32,
    nlMatrixTopNControlGrantedSize Integer32,
    nlMatrixTopNControlStartTime  TimeStamp,
    nlMatrixTopNControlOwner      OwnerString,
    nlMatrixTopNControlStatus     RowStatus
}
```

nlMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the nlMatrixTopNControlTable. Each such entry defines one topN report prepared for one interface."

::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The nlMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The nlMatrix[SD/DS] table is identified by the value of the nlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1)."

::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {  
    nlMatrixTopNPkts(1),  
    nlMatrixTopNOctets(2),  
    nlMatrixTopNHighCapacityPkts(3),  
    nlMatrixTopNHighCapacityOctets(4)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The variable for each nlMatrix[SD/DS] entry that the nlMatrixTopNEntries are sorted by, as well as a control for the table that the results will be reported in.

This object may not be modified if the associated nlMatrixTopNControlStatus object is equal to active(1).

If this value is less than or equal to 2, when the report is prepared, entries are created in the nlMatrixTopNTable associated with this object.

If this value is greater than or equal to 3, when the report is prepared, entries are created in the nlMatrixTopNHighCapacityTable associated with this object."

::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this

report and is immediately loaded into the associated nlMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of nlMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly,

checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time that this object decrements to zero, the report is made accessible in the nlMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the nlMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

```
DEFVAL { 1800 }  
::= { nlMatrixTopNControlEntry 4 }
```

nlMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

```
::= { nlMatrixTopNControlEntry 5 }
```

nlMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated nlMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same value and shall not be modified until the next time the nlMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this nlMatrixTopNControlEntry."

```
::= { nlMatrixTopNControlEntry 6 }
```

nlMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set nlMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When

the associated nlMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated nlMatrixTopNControlRequestedSize object.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, when the next topN report is generated, matrix entries with the highest value of nlMatrixTopNOctetRate shall be placed in this table in decreasing

order of this rate

until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."

::= { nlMatrixTopNControlEntry 8 }

nlMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated nlMatrixTopNControlTimeRemaining object was modified to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."

::= { nlMatrixTopNControlEntry 9 }

nlMatrixTopNControlOwner

OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the nlMatrixTopNTable shall be deleted by the agent."

::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those network-layer matrix entries

that have

counted the highest number of octets or packets."

::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE

SYNTAX NlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the nlMatrixTopNTable.

The nlMatrixTopNControlIndex value in the index identifies the nlMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is

nlMatrixTopNPktRate.3.10"

INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }

::= { nlMatrixTopNTable 1 }

NlMatrixTopNEntry ::= SEQUENCE {

nlMatrixTopNIndex Integer32,

nlMatrixTopNProtocolDirLocalIndex Integer32,

nlMatrixTopNSourceAddress OCTET STRING,

nlMatrixTopNDestAddress OCTET STRING,

nlMatrixTopNPktRate Gauge32,

nlMatrixTopNReversePktRate Gauge32,

nlMatrixTopNOctetRate Gauge32,

nlMatrixTopNReverseOctetRate

Gauge32

}

nlMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the nlMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the number of entries in this report.



If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall be assigned to entries with decreasing values of nlMatrixTopNPktRate until index N is assigned or there are no more nlMatrixTopNEntries.

If the value of nlMatrixTopNControlRateBase is equal to nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex

shall be assigned to entries with decreasing values of nlMatrixTopNOctetRate until index N is assigned or there are no more nlMatrixTopNEntries."

::= { nlMatrixTopNEntry 1 }

nlMatrixTopNProtocolDirLocalIndex

OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { nlMatrixTopNEntry 2 }

nlMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

For example, if the protocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixTopNEntry 3 }

nlMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET

STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated nlMatrixTopNProtocolDirLocalIndex.

For example, if the nlMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { nlMatrixTopNEntry 4 }

nlMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object.

If the value of nlMatrixTopNControlRateBase is nlMatrixTopNPkts,

this variable will be used to sort this report."

::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixSDPkts object. (Note that the corresponding nlMatrixSDPkts object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal

to nlMatrixTopNPkts, the sort of topN entries is based entirely on nlMatrixTopNPktRate, and not on the value of this object."

::= { nlMatrixTopNEntry 6 }

#### nlMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of octets seen from the source host to the destination host during this sampling interval, counted using the rules for counting the nlMatrixSDOctets object. If the value of nlMatrixTopNControlRateBase is nlMatrixTopNOctets, this variable will be used to sort this report."

::= { nlMatrixTopNEntry 7 }

#### nlMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The number of octets seen from the destination host to the source host during this sampling interval, counted using the rules for counting the nlMatrixDSOctets object. (Note that the corresponding nlMatrixSDOctets object selected is the one whose source address is equal to nlMatrixTopNDestAddress and whose destination address is equal to nlMatrixTopNSourceAddress.)

Note that if the value of nlMatrixTopNControlRateBase is equal

to nlMatrixTopNOctets, the sort of topN entries is based entirely on nlMatrixTopNOctetRate, and not on the value of this object."

::= { nlMatrixTopNEntry 8 }

-- Application Layer Functions

--

-- The application layer host, matrix, and matrixTopN functions report  
-- on protocol usage at the network layer or higher. Note that the  
-- use of the term application layer does not imply that only  
-- application-layer protocols are counted, rather it means that  
-- protocols up to and including the application layer are supported.

--  
-- Application Layer Host Group  
--  
-- Counts the amount of traffic, by protocol, sent from and to each  
-- network address discovered by the probe.  
-- Implementation of this group requires implementation of the Network  
-- Layer Host Group.

alHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlHostEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A collection of statistics for a particular  
protocol from a  
particular network address that has been discovered on an  
interface of this device.

The probe will populate this table for all protocols in the  
protocol directory table whose value of  
protocolDirHostConfig is equal to supportedOn(3), and  
will delete any entries whose protocolDirEntry is deleted or  
has a protocolDirHostConfig value of supportedOff(2).

The probe will add to this table all addresses  
seen as the source or destination address in all packets with  
no MAC errors and will increment octet and packet counts in  
the table for all packets with no MAC errors. Further,  
entries will only be added to this table if their address  
exists in the nlHostTable and will be deleted from this table  
if their address is deleted from the nlHostTable."

::= { alHost 1 }

alHostEntry OBJECT-TYPE

SYNTAX AlHostEntry

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A conceptual row in the alHostTable.

The hlHostControlIndex value in the index identifies the  
hlHostControlEntry on whose behalf this entry was created.  
The first protocolDirLocalIndex value in the index identifies  
the network-layer protocol of the address.

The nlHostAddress value in the index identifies the network-layer address of this entry.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing in this entry is  
alHostOutPkts.1.783495.18.4.128.2.6.6.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
INDEX { hlHostControlIndex, alHostTimeMark,  
        protocolDirLocalIndex,  
nlHostAddress,  
        protocolDirLocalIndex }  
 ::= { alHostTable 1 }
```

```
AlHostEntry ::= SEQUENCE {  
    alHostTimeMark      TimeFilter,  
    alHostInPkts        ZeroBasedCounter32,  
    alHostOutPkts       ZeroBasedCounter32,  
    alHostInOctets      ZeroBasedCounter32,  
    alHostOutOctets     ZeroBasedCounter32,  
    alHostCreateTime   LastCreateTime  
}
```

alHostTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted to this address since it was added to the alHostTable. Note that this is the number

of link-layer

packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted by this address since it was added to the alHostTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted to this address of this protocol type since it was added to the alHostTable (excluding framing bits, but

including

FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 4 }

alHostOutOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets transmitted by this address of this protocol type since it was added to the alHostTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value

of sysUpTime when this entry was last activated.

This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alHostEntry 6 }

--

-- Application Layer Matrix Group

--

-- Counts the amount of traffic, by protocol, sent between each pair of network addresses discovered by the probe.

-- Implementation of this group requires implementation of the Network

-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF AIMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by the source address and then by the destination address to make it convenient to collect all statistics from a particular address.

The probe will populate this table for all protocols in the protocol directory table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and will delete any entries whose protocolDirEntry is deleted or has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for

all protocols seen in all packets with no MAC errors and will increment octet and packet counts in the table for all packets with no MAC errors. Further, entries will only be added to this table if their address pair exists in the nlMatrixSDTable and will be deleted from this table if the address pair is deleted from the nlMatrixSDTable."

::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE

SYNTAX AlMatrixSDEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf this entry was created.

The first protocolDirLocalIndex value in the index identifies the network-layer protocol of the nlMatrixSDSourceAddress and nlMatrixSDDestAddress.

The nlMatrixSDSourceAddress value in the index identifies the network-layer address of the source host in this conversation.

The nlMatrixSDDestAddress value in the index identifies the network-layer address of the destination host in this conversation.

The second protocolDirLocalIndex value in the index identifies the protocol that is counted by this entry.

An example of the indexing of this entry is

alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take

care to avoid such combinations."

INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,  
protocolDirLocalIndex,  
nlMatrixSDSourceAddress, nlMatrixSDDestAddress,  
protocolDirLocalIndex }

::= { alMatrixSDTable 1 }

AlMatrixSDEntry ::= SEQUENCE {

alMatrixSDTimeMark TimeFilter,



```
alMatrixSDPkts          ZeroBasedCounter32,
alMatrixSDOctets        ZeroBasedCounter32,
alMatrixSDCreateTime    LastCreateTime
}
```

alMatrixSDTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual convention to see how this works."

::= { alMatrixSDEntry 1 }

alMatrixSDPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted

from the source address to the destination address

since this entry was added to the alMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixSDEntry 2 }

alMatrixSDOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime

OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated.  
This can be used by the management station to ensure that the  
entry has not been deleted and recreated between polls."

::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of application traffic matrix entries that collect  
statistics for conversations of a particular protocol between  
two network-level addresses. This table is indexed first by  
the destination address and then by the source address to make  
it convenient to collect all statistics to a particular  
address.

The probe will populate this table for all protocols in the  
protocol directory

table whose value of

protocolDirMatrixConfig is equal to supportedOn(3), and  
will delete any entries whose protocolDirEntry is deleted or  
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for  
all protocols seen in all packets with no MAC errors and will  
increment octet and packet counts in the table for all packets  
with no MAC errors. Further, entries will only be added to  
this table if their address pair exists in the nlMatrixDSTable  
and will be deleted from this table if the address pair is  
deleted from the nlMatrixDSTable."

::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE

SYNTAX AlMatrixDSEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf  
this entry was created.

The first protocolDirLocalIndex value in the index identifies  
the network-layer protocol of the alMatrixDSSourceAddress and  
alMatrixDSDestAddress.

The nlMatrixDSDestAddress value in the index identifies the  
network-layer address of the destination host in this

conversation.

The nlMatrixDSSourceAddress value in the index identifies the  
network-layer address of the source host in this conversation.

The second protocolDirLocalIndex value in the index identifies  
the protocol that is counted by this entry.

An example of the indexing of this entry is  
alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

Note that some combinations of index values may result in an  
index that exceeds 128 sub-identifiers in length, which exceeds  
the maximum for the SNMP protocol. Implementations should take  
care to avoid such combinations."

```
INDEX { hlMatrixControlIndex,  
alMatrixDSTimeMark,  
    protocolDirLocalIndex,  
    nlMatrixDSDestAddress, nlMatrixDSSourceAddress,  
    protocolDirLocalIndex }  
::= { alMatrixDSTable 1 }
```

```
AlMatrixDSEntry ::= SEQUENCE {  
    alMatrixDSTimeMark      TimeFilter,  
    alMatrixDSPkts         ZeroBasedCounter32,  
    alMatrixDSOctets       ZeroBasedCounter32,  
    alMatrixDSCreateTime   LastCreateTime  
}
```

alMatrixDSTimeMark OBJECT-TYPE

SYNTAX TimeFilter

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A TimeFilter for this entry. See the TimeFilter textual  
convention to see how this works."

```
::= { alMatrixDSEntry 1 }
```

alMatrixDSPkts OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets of this protocol type without errors transmitted from the source address to the destination address

since this entry was added to the alMatrixDSTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."

::= { alMatrixDSEntry 2 }

alMatrixDSOctets OBJECT-TYPE

SYNTAX ZeroBasedCounter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixDSTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."

::= { alMatrixDSEntry 3 }

alMatrixDSCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS

read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."

::= { alMatrixDSEntry 4 }

alMatrixTopNControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of parameters that control the creation of a

report of the top N matrix entries according to  
a selected metric."

::= { alMatrix 3 }

alMatrixTopNControlEntry OBJECT-TYPE

SYNTAX AlMatrixTopNControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNControlTable.

An example of the indexing of this table is

alMatrixTopNControlDuration.3"

INDEX { alMatrixTopNControlIndex }

::= { alMatrixTopNControlTable 1 }

AlMatrixTopNControlEntry

::= SEQUENCE {

alMatrixTopNControlIndex Integer32,  
alMatrixTopNControlMatrixIndex Integer32,  
alMatrixTopNControlRateBase INTEGER,  
alMatrixTopNControlTimeRemaining Integer32,  
alMatrixTopNControlGeneratedReports Counter32,  
alMatrixTopNControlDuration Integer32,  
alMatrixTopNControlRequestedSize Integer32,  
alMatrixTopNControlGrantedSize Integer32,  
alMatrixTopNControlStartTime TimeStamp,  
alMatrixTopNControlOwner OwnerString,  
alMatrixTopNControlStatus RowStatus

}

alMatrixTopNControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry  
in the alMatrixTopNControlTable. Each such  
entry defines one topN report prepared for  
one interface."

::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The alMatrix[SD/DS] table for which a topN report will be prepared on behalf of this entry. The alMatrix[SD/DS] table is identified by the value of the hlMatrixControlIndex for that table - that value is used here to identify the particular table.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE

SYNTAX INTEGER {

alMatrixTopNTerminalsPkts(1),  
alMatrixTopNTerminalsOctets(2),  
alMatrixTopNAllPkts(3),  
alMatrixTopNAllOctets(4),  
alMatrixTopNTerminalsHighCapacityPkts(5),  
alMatrixTopNTerminalsHighCapacityOctets(6),

alMatrixTopNAllHighCapacityPkts(7),

alMatrixTopNAllHighCapacityOctets(8)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object controls which alMatrix[SD/DS] entry that the alMatrixTopNEntries are sorted by, which view of the matrix table that will be used, as well as which table the results will be reported in.

The values alMatrixTopNTerminalsPkts, alMatrixTopNTerminalsOctets, alMatrixTopNTerminalsHighCapacityPkts, and alMatrixTopNTerminalsHighCapacityOctets cause collection only from protocols that have no child protocols that are counted. The values alMatrixTopNAllPkts, alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and alMatrixTopNAllHighCapacityOctets cause collection from all alMatrix entries.

This object may not be modified if the associated alMatrixTopNControlStatus object is equal to active(1)."

::= { alMatrixTopNControlEntry

3 }

alMatrixTopNControlTimeRemaining OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of seconds left in the report currently being collected. When this object is modified by the management station, a new collection is started, possibly aborting a currently running report. The new value is used as the requested duration of this report and is immediately loaded into the associated alMatrixTopNControlDuration object.

When the report finishes, the probe will automatically start another collection with the same initial value of alMatrixTopNControlTimeRemaining. Thus, the management station may simply read the resulting reports repeatedly, checking the startTime and duration each time to ensure that a report was not missed or that the report parameters were not changed.

While the value of this object is non-zero, it decrements by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made accessible in the alMatrixTopNTable, overwriting any report that may be there.

When this object is modified by the management station, any associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used in the hostTopNTable)."

DEFVAL { 1800 }

::= { alMatrixTopNControlEntry 4 }

alMatrixTopNControlGeneratedReports OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of reports that have been generated by this entry."

::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of seconds that this report has collected during the last sampling interval.

When the associated alMatrixTopNControlTimeRemaining object is set, this object shall be set by the probe to the same value and shall not be modified until the next time the alMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been requested for this alMatrixTopNControlEntry."

::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The maximum number of matrix entries requested for this report.

When this object is created or modified, the probe should set alMatrixTopNControlGrantedSize as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 150 }

::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The maximum number of matrix entries in this report.

When the associated alMatrixTopNControlRequestedSize object is created or modified, the probe should set this object as closely to the requested value as possible for the particular implementation and available resources. The probe must not lower this value except as a side-effect of a set to the associated



alMatrixTopNControlRequestedSize object.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNPktRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the next topN report is generated, matrix entries with the highest value of alMatrixTopNOctetRate shall be placed in this table in decreasing order of this rate until there is no more room or until there are no more matrix entries.

It is an implementation-specific matter how entries with the same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are sorted. It is also an implementation-specific matter as to whether zero-valued entries are available."

::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this topN report was last started. In other words, this is the time that the associated alMatrixTopNControlTimeRemaining object was modified

to start the requested report or the time the report was last automatically (re)started.

This object may be used by the management station to determine whether a report was missed."

::= { alMatrixTopNControlEntry 9 }

alMatrixTopNControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this alMatrixTopNControlEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries in the alMatrixTopNTable shall be deleted by the agent."

::= { alMatrixTopNControlEntry  
11 }

alMatrixTopNTable OBJECT-TYPE

SYNTAX SEQUENCE OF AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A set of statistics for those application-layer matrix entries that have counted the highest number of octets or packets."

::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE

SYNTAX AlMatrixTopNEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the alMatrixTopNTable.

The alMatrixTopNControlIndex value in the index identifies the alMatrixTopNControlEntry on whose behalf this entry was created.

An example of the indexing of this table is

alMatrixTopNPktRate.3.10"

INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }

::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {

alMatrixTopNIndex Integer32,

```

alMatrixTopNProtocolDirLocalIndex Integer32,

alMatrixTopNSourceAddress OCTET STRING,
alMatrixTopNDestAddress OCTET STRING,
alMatrixTopNAppProtocolDirLocalIndex Integer32,
alMatrixTopNPktRate Gauge32,
alMatrixTopNReversePktRate Gauge32,
alMatrixTopNOctetRate Gauge32,
alMatrixTopNReverseOctetRate Gauge32
}

```

alMatrixTopNIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the alMatrixTopNTable among those in the same report.

This index is between 1 and N, where N is the number of entries in this report.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNPktRate until index N is

assigned or there are no more alMatrixTopNEntries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNOctetRate until index N is assigned or there are no more alMatrixTopNEntries."

::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (1..255))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network

byte order."

::= { alMatrixTopNEntry 4 }

alMatrixTopNAppProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of the protocol counted by this matrix entry."

::= { alMatrixTopNEntry 5 }

alMatrixTopNPktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the alMatrixSDPkts object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, this variable will be used to sort this report."

::= { alMatrixTopNEntry 6 }

alMatrixTopNReversePktRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of packets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSPkts object. (Note that the corresponding alMatrixSDPkts object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort of topN entries is based entirely on alMatrixTopNPktRate, and not on the value of this object."

::= { alMatrixTopNEntry 7 }

alMatrixTopNOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the source host to the destination host during this sampling interval, counted using the rules for counting the alMatrixSDOctets object.

If the value of alMatrixTopNControlRateBase is alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this

variable will be used to sort this report."  
 ::= { alMatrixTopNEntry 8 }

#### alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of octets seen of this protocol from the destination host to the source host during this sampling interval, counted using the rules for counting the alMatrixDSOctets object. (Note that the corresponding alMatrixSDOctets object selected is the one whose source address is equal to alMatrixTopNDestAddress and whose destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the sort of topN entries is based entirely on

alMatrixTopNOctetRate, and not on the value of this object."

::= { alMatrixTopNEntry 9 }

--

-- User History Collection Group (usrHistory)

--

-- The usrHistory group combines mechanisms seen in the alarm and history groups to provide user-specified history collection, utilizing two additional control tables and one additional data table. This function has traditionally been done by NMS applications, via periodic polling. The usrHistory group allows this task to be offloaded to an RMON probe.

--

-- Data (an ASN.1 INTEGER based object) is collected in the same manner as any history data table (e.g., etherHistoryTable) except that the user specifies the MIB instances to be collected. Objects are collected in bucket-groups, with the intent that all MIB instances in the same bucket-group are collected as atomically as possible by the RMON probe.

--

-- The usrHistoryControlTable is a one-dimensional read-create table.

-- Each row configures

a collection of user history buckets, much

-- the same as a historyControlEntry, except that the creation of a

-- row in this table will cause one or more associated instances in

-- the usrHistoryObjectTable to be created. The user specifies the  
 -- number of bucket elements (rows in the usrHistoryObjectTable)  
 -- requested, as well as the number of buckets requested.  
 --  
 -- The usrHistoryObjectTable is a 2-d read-write table.  
 -- Each row configures a single MIB instance to be collected.  
 -- All rows with the same major index constitute a bucket-group.  
 --  
 -- The usrHistoryTable is a 3-d read-only table containing  
 --  
 -- the data of associated usrHistoryControlEntries. Each  
 -- entry represents the value of a single MIB instance  
 -- during a specific sampling interval (or the rate of  
 -- change during the interval).  
 --  
 -- A sample value is stored in two objects - an absolute value and  
 -- a status object. This allows numbers from  $-(2G-1)$  to  $+4G$  to be  
 -- stored. The status object also indicates  
 whether a sample is  
 -- valid. This allows data collection to continue if periodic  
 -- retrieval of a particular instance fails for any reason.  
 --  
 -- Row Creation Order Relationships  
 --  
 -- The static nature of the usrHistoryObjectTable creates  
 -- some row creation/modification issues. The rows in this  
 -- table need to be set before the associated  
 -- usrHistoryControlEntry can be activated.  
 --  
 -- Note that the usrHistoryObject entries associated with a  
 -- particular usrHistoryControlEntry are not required to  
 -- be active before the control entry is activated. However,  
 -- the usrHistory data entries associated with an inactive  
 -- usrHistoryObject entry will be inactive (i.e.,  
 -- usrHistoryValStatus == valueNotAvailable).  
 --

```
usrHistoryControlTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UsrHistoryControlEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A list of data-collection configuration entries."
    ::= { usrHistory 1 }
```

```
usrHistoryControlEntry OBJECT-TYPE
```

SYNTAX UsrHistoryControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of parameters that set up a group of user-defined MIB objects to be sampled periodically (called a bucket-group).

For example, an instance of usrHistoryControlInterval might be named usrHistoryControlInterval.1"

INDEX { usrHistoryControlIndex }

::= { usrHistoryControlTable 1 }

```
UsrHistoryControlEntry ::= SEQUENCE {
    usrHistoryControlIndex      Integer32,
    usrHistoryControlObjects    Integer32,
    usrHistoryControlBucketsRequested Integer32,
    usrHistoryControlBucketsGranted Integer32,
    usrHistoryControlInterval  Integer32,
    usrHistoryControlOwner     OwnerString,
    usrHistoryControlStatus     RowStatus
}
```

usrHistoryControlIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies an entry in the usrHistoryControlTable. Each such entry defines a set of samples at a particular interval for a specified set of MIB instances available from the managed system."

::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The number of MIB objects to be collected in the portion of usrHistoryTable associated with this usrHistoryControlEntry.

This object may not be modified if the associated instance



of usrHistoryControlStatus is equal to active(1)."  
::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The requested number of discrete time intervals over which data is to be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When this object is created or modified, the probe should set usrHistoryControlBucketsGranted as closely to this object as possible for the particular probe implementation and available resources."

DEFVAL { 50 }

::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of discrete sampling intervals over which data shall be saved in the part of the usrHistoryTable associated with this usrHistoryControlEntry.

When the associated usrHistoryControlBucketsRequested object is created or modified, the probe should set this object as closely to the requested value as possible for the particular probe implementation and available resources. The probe must not lower this value except as a result of a modification to the associated usrHistoryControlBucketsRequested object.

The associated usrHistoryControlBucketsRequested object should be set before or at the same time as this object to allow the probe to accurately estimate the resources required for this usrHistoryControlEntry.

There will be times when the actual number of buckets associated with this entry is less than the value of this object. In this case, at the end of each sampling

interval, a new bucket will be added to the usrHistoryTable.

When the number of buckets reaches the value of this object and a new bucket is to be added to the usrHistoryTable, the oldest bucket associated with this usrHistoryControlEntry shall be deleted by the agent so that the new bucket can be added.

When the value of this object changes to a value less than the current value, entries are deleted from the usrHistoryTable associated with this usrHistoryControlEntry.

Enough of the oldest of these entries shall be deleted by the agent so that their number remains less than or equal to the new value of this object.

When the value of this object changes to a value greater than the current value, the number of associated usrHistory entries may be allowed to grow."

::= { usrHistoryControlEntry 4 }

#### usrHistoryControlInterval OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The interval in seconds over which the data is sampled for each bucket in the part of the usrHistory table associated with this usrHistoryControlEntry.

Because the counters in a bucket may overflow at their maximum value with no indication, a prudent manager will take into account the possibility of overflow in any of the associated counters. It is important to consider the

minimum time in which any counter could overflow on a particular media type and to set the usrHistoryControlInterval object to a value less than this interval.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

DEFVAL { 1800 }

::= { usrHistoryControlEntry 5 }

#### usrHistoryControlOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The status of this variable history control entry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated entries

in the usrHistoryTable shall be deleted."

::= { usrHistoryControlEntry 7 }

-- Object table

usrHistoryObjectTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of data-collection configuration entries."

::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE

SYNTAX UsrHistoryObjectEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of MIB instances to be sampled periodically.

Entries in this table are created when an associated usrHistoryControlObjects object is created.

The usrHistoryControlIndex value in the index is that of the associated usrHistoryControlEntry.

For example, an instance of `usrHistoryObjectVariable` might be

`usrHistoryObjectVariable.1.3"`

```
INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }
```

```
::= { usrHistoryObjectTable 1 }
```

```
UsrHistoryObjectEntry ::= SEQUENCE {
```

```
    usrHistoryObjectIndex      Integer32,  
    usrHistoryObjectVariable   OBJECT IDENTIFIER,  
    usrHistoryObjectSampleType INTEGER  
}
```

```
usrHistoryObjectIndex OBJECT-TYPE
```

```
SYNTAX Integer32 (1..65535)
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

"An index used to uniquely identify an entry in the `usrHistoryObject` table. Each such entry defines a MIB instance to be collected periodically."

```
::= { usrHistoryObjectEntry 1 }
```

```
usrHistoryObjectVariable OBJECT-TYPE
```

```
SYNTAX OBJECT IDENTIFIER
```

```
MAX-ACCESS read-create
```

```
STATUS current
```

```
DESCRIPTION
```

"The object identifier of the particular variable to be

sampled.

Only variables that resolve to an ASN.1 primitive type of `Integer32` (`Integer32`, `Counter`, `Gauge`, or `TimeTicks`) may be sampled.

Because SNMP access control is articulated entirely in terms of the contents of MIB views, no access control mechanism

exists that can restrict the value of this object to identify only those objects that exist in a particular MIB view.

Because there is thus no acceptable means of restricting the read access that could be obtained through the user history mechanism, the probe must only grant write access to this object in those views that have read access to all objects on

the probe. See USM [RFC3414] and VACM [RFC3415] for more information.

During a set operation, if the supplied variable name is not available in the selected MIB view, a badValue error must be returned.

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE

SYNTAX INTEGER {  
    absoluteValue(1),  
    deltaValue(2)  
}

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The method of sampling the selected variable for storage in the usrHistoryTable.

If the value of this object is absoluteValue(1), the value of the selected variable will be copied directly into the history bucket.

If the value of this object is deltaValue(2), the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket. If the associated usrHistoryObjectVariable instance could not be obtained at the previous sample interval, then a delta sample is not possible, and the value of the associated usrHistoryValStatus object for this interval will be valueNotAvailable(1).

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."

::= { usrHistoryObjectEntry 3 }

-- data table

usrHistoryTable OBJECT-TYPE

SYNTAX SEQUENCE OF UsrHistoryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A list of user-defined history entries."

::= { usrHistory 3 }

usrHistoryEntry OBJECT-TYPE

SYNTAX UsrHistoryEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A historical sample of user-defined variables. This sample is associated with the usrHistoryControlEntry that set up the parameters for a regular collection of these samples.

The usrHistoryControlIndex value in the index identifies the usrHistoryControlEntry on whose behalf this entry was created.

The usrHistoryObjectIndex value in the index identifies the usrHistoryObjectEntry on whose behalf this entry was created.

For example, an instance of usrHistoryAbsValue, which represents the 14th sample of a variable collected as specified by usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5, would be named usrHistoryAbsValue.1.14.5"

INDEX { usrHistoryControlIndex, usrHistorySampleIndex,  
usrHistoryObjectIndex }

::= { usrHistoryTable 1 }

UsrHistoryEntry ::= SEQUENCE {

usrHistorySampleIndex Integer32,

usrHistoryIntervalStart TimeStamp,

usrHistoryIntervalEnd TimeStamp,

usrHistoryAbsValue Gauge32,

usrHistoryValStatus INTEGER

}

usrHistorySampleIndex OBJECT-TYPE

SYNTAX Integer32 (1..2147483647)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An index that uniquely identifies the particular sample this entry represents among all samples associated with the same usrHistoryControlEntry. This index starts at 1 and increases by one as each new sample is taken."

::= { usrHistoryEntry 1 }

usrHistoryIntervalStart OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime at the start of the interval over which this sample was measured. If the probe keeps track of the time of day, it should start the first sample of the history at a time such that when the next hour of the day begins, a sample is started at that instant.

Note that following this rule may require that the probe delay collecting the first sample of the history, as each sample must be of the same interval. Also note that the sample that is currently being collected is not accessible in this table until the end of its interval."

::= { usrHistoryEntry 2 }

usrHistoryIntervalEnd OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime at the end of the interval over which this sample was measured."

::= { usrHistoryEntry 3 }

usrHistoryAbsValue OBJECT-TYPE

SYNTAX Gauge32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The absolute value (i.e., unsigned value) of the

user-specified statistic during the last sampling period. The value during the current sampling period is not made available until the period is completed.

To obtain the true value for this sampling interval, the associated instance of usrHistoryValStatus must be checked, and usrHistoryAbsValue adjusted as necessary.

If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of usrHistoryValStatus will be set to

'valueNotAvailable(1).'

The access control check prescribed in the definition of `usrHistoryObjectVariable` SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of `usrHistoryValStatus` will be set to 'valueNotAvailable(1).'

```
::= { usrHistoryEntry
4 }
```

`usrHistoryValStatus` OBJECT-TYPE

```
SYNTAX INTEGER {
    valueNotAvailable(1),
    valuePositive(2),
    valueNegative(3)
}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This object indicates the validity and sign of the data in the associated instance of `usrHistoryAbsValue`.

If the MIB instance could not be accessed during the sampling interval, then 'valueNotAvailable(1)' will be returned.

If the sample is valid and the actual value of the sample is greater than or equal to zero, then 'valuePositive(2)' is returned.

If the sample is valid and the actual value of the sample is less than zero, 'valueNegative(3)' will be returned. The associated instance of `usrHistoryAbsValue` should be multiplied by -1 to obtain the true sample value."

```
::= { usrHistoryEntry 5 }
```

-- The Probe Configuration Group

--

-- This group controls the configuration of various operating

--

parameters of the probe.

`ControlString` ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"This data type is used to communicate with a modem or a



serial data switch. A ControlString contains embedded commands to control how the device will interact with the remote device through the serial interface. Commands are represented as two-character sequences beginning with the '^' character.

The following commands are recognized by the device (note that command characters are case sensitive):

^s Send string that follows, which is terminated by the next command or the end of string.

^c Delay for the number of seconds that follows. Toss out any data received rather than store it in a buffer for parsing.

^t Set timeout to the value represented by the decimal digits that follow. The default timeout is 20

seconds. Note that this timeout may be overridden by a smaller serialTimeout configured for the associated serial interface (see serialConfigTable).

^w Wait for the reply string that follows, which is terminated by the next command or the end of string. Partial and case-insensitive matching is applied, i.e., if the reply string (any case combination) is found anywhere in the received string, then the a match is found. If the current timeout elapses without a match, then the remaining control string is ignored.

^! The ^ character.

^d Delay the number of seconds specified by the decimal digits that follow.

^b Send break for the number of milliseconds specified by the decimal digits that follow. If no digits follow, break will be enforced for 250 milliseconds by default.

The following ASCII control characters may be inserted into the '^s' send string or the '^w' reply string:

^@ 0x00

^A 0x01

..

^M 0x0D

..

^Z 0x1A

^[ 0x1B

^ 0x1C

^] 0x1D

^^ 0x1E

^\_ 0x1F

Binary data may also be inserted into the data stream. The control sequence for each byte of binary data is ^0x##, where ## is the hexadecimal representation of the data byte. Two ASCII characters (0-9, a-f, A-F) must follow the '^0x' control prefix. For example, '^0x0D^0x0A' is interpreted as a carriage return followed by a line feed."

SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE

SYNTAX BITS {

etherStats(0),  
historyControl(1),  
etherHistory(2),  
alarm(3),  
hosts(4),  
hostTopN(5),  
matrix(6),  
filter(7),  
capture(8),  
event(9),  
tokenRingMLStats(10),  
tokenRingPStats(11),  
tokenRingMLHistory(12),  
tokenRingPHistory(13),  
ringStation(14),  
ringStationOrder(15),  
ringStationConfig(16),  
sourceRouting(17),  
protocolDirectory(18),  
protocolDistribution(19),  
addressMapping(20),  
nlHost(21),  
nlMatrix(22),  
alHost(23),  
alMatrix(24),  
usrHistory(25),  
probeConfig(26)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"An indication of the RMON MIB groups supported

on at least one interface by this probe."  
 ::= { probeConfig 1 }

probeSoftwareRev OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..15))  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION  
"The software revision of this device. This string will have  
a zero length if the revision is unknown."  
 ::= { probeConfig 2 }

probeHardwareRev  
OBJECT-TYPE  
SYNTAX DisplayString (SIZE(0..31))  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The hardware revision of this device. This string will have  
a zero length if the revision is unknown."  
 ::= { probeConfig 3 }

probeDateTime OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE (0 | 8 | 11))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"Probe's current date and time.

| field | octets | contents                 | range     |
|-------|--------|--------------------------|-----------|
| 1     | 1-2    | year                     | 0..65536  |
| 2     | 3      | month                    | 1..12     |
| 3     | 4      | day                      | 1..31     |
| 4     | 5      | hour                     | 0..23     |
| 5     | 6      | minutes                  | 0..59     |
| 6     | 7      | seconds                  | 0..60     |
|       |        | (use 60 for leap-second) |           |
| 7     | 8      | deci-seconds             | 0..9      |
| 8     | 9      | direction from UTC       | '+' / '-' |
| 9     | 10     | hours from UTC           | 0..11     |
| 10    | 11     | minutes from UTC         | 0..59     |

For example, Tuesday May 26, 1992 at 1:30:15 PM

EDT would be displayed as:

1992-5-26,13:30:15.0,-4:0

Note that if only local time is known, then time zone information (fields 8-10) is not present, and that if no time information is known, the null string is returned."

::= { probeConfig 4 }

probeResetControl OBJECT-TYPE

```
SYNTAX INTEGER {
    running(1),
    warmBoot(2),
    coldBoot(3)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Setting this object to warmBoot(2) causes the device to restart the application software with current configuration parameters saved in non-volatile memory. Setting this

object to coldBoot(3) causes the device to reinitialize configuration parameters in non-volatile memory to default values and to restart the application software. When the device is running normally, this variable has a value of running(1)."

::= { probeConfig 5 }

-- The following download objects do not restrict an implementation  
-- from implementing additional download mechanisms (controlled in an  
-- implementation-specific manner). Further, in the case where the RMON  
-- agent shares a processor with other types of systems, the  
-- implementation is not required to download those non-RMON functions  
-- with this mechanism.

probeDownloadFile OBJECT-TYPE

```
SYNTAX DisplayString (SIZE(0..127))
```

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The file name to be downloaded from the TFTP server when a download is next requested via this MIB. This value is set to

the zero-length string when no file name has been specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 6 }

probeDownloadTFTPServer OBJECT-TYPE

SYNTAX IPAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP address of the TFTP server that contains the boot image to load when a download is next requested via this MIB.

This value is set to '0.0.0.0' when no IP address has been

specified.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 7 }

probeDownloadAction OBJECT-TYPE

SYNTAX INTEGER {

notDownloading(1),

downloadToPROM(2),

downloadToRAM(3)

}

MAX-ACCESS

read-write

STATUS deprecated

DESCRIPTION

"When this object is set to downloadToRAM(3) or downloadToPROM(2), the device will discontinue its normal operation and begin download of the image specified by probeDownloadFile from the server specified by probeDownloadTFTPServer using the TFTP protocol. If downloadToRAM(3) is specified, the new image is copied to RAM only (the old image remains unaltered in the flash EPROM). If downloadToPROM(2) is specified, the new image is written to the flash EPROM memory after its checksum has been verified to be correct. When the download process is completed, the device will warm boot to restart the newly loaded application.

When the device is not downloading, this object will have a value of notDownloading(1).

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."  
::= { probeConfig 8 }

probeDownloadStatus OBJECT-TYPE

SYNTAX INTEGER {  
    downloadSuccess(1),  
    downloadStatusUnknown(2),  
    downloadGeneralError(3),  
    downloadNoResponseFromServer(4),  
    downloadChecksumError(5),  
    downloadIncompatibleImage(6),  
    downloadTftpFileNotFound(7),  
    downloadTftpAccessViolation(8)  
}

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The status of the last download procedure, if any. This object will have a value of downloadStatusUnknown(2) if no download process has been performed.

This object has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 9 }

serialConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of serial interface configuration entries. This data will be stored in non-volatile memory and preserved across probe resets or power loss.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 10 }

serialConfigEntry OBJECT-TYPE

SYNTAX SerialConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular serial interface on this device. If the device has no serial interfaces, this table is empty.

The index is composed of the ifIndex assigned to this serial line interface."

INDEX { ifIndex }

::=

{ serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {

serialMode INTEGER,

serialProtocol INTEGER,

serialTimeout Integer32,

serialModemInitString ControlString,

serialModemHangUpString ControlString,

serialModemConnectResp DisplayString,

serialModemNoConnectResp DisplayString,

serialDialoutTimeout Integer32,

serialStatus RowStatus

}

serialMode OBJECT-TYPE

SYNTAX INTEGER {

direct(1),

modem(2)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of incoming connection to be expected on this serial interface."

DEFVAL { direct }

::= { serialConfigEntry 1 }

serialProtocol OBJECT-TYPE

SYNTAX INTEGER {

other(1),

slip(2),

```
        ppp(3)
    }
MAX-ACCESS read-create
STATUS
    deprecated
DESCRIPTION
    "The type of data link encapsulation to be used on this
    serial interface."
DEFVAL { slip }
::= { serialConfigEntry 2 }
```

serialTimeout OBJECT-TYPE

```
SYNTAX Integer32 (1..65535)
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
    "This timeout value is used when the Management Station has
    initiated the conversation over the serial link. This variable
    represents the number of seconds of inactivity allowed before
    terminating the connection on this serial interface. Use the
    serialDialoutTimeout in the case where the probe has initiated
    the connection for the purpose of sending a trap."
DEFVAL { 300 }
::= { serialConfigEntry 3 }
```

serialModemInitString OBJECT-TYPE

```
SYNTAX ControlString (SIZE (0..255))
MAX-ACCESS read-create
STATUS deprecated
```

DESCRIPTION

"A control string that controls how a modem attached to this

serial interface should be initialized. The initialization is performed once during startup and again after each connection is terminated if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."

```
::= { serialConfigEntry 4 }
```

serialModemHangUpString OBJECT-TYPE

```
SYNTAX ControlString (SIZE (0..255))
MAX-ACCESS read-create
STATUS deprecated
```



## DESCRIPTION

"A control string that specifies how to disconnect a modem connection on this serial interface. This object is only meaningful if the associated serialMode has the value of modem(2).

A control string that is appropriate for a wide variety of modems is: '^d2^s+++^d2^sATH0^M^d2'."

::= { serialConfigEntry 5 }

serialModemConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

## DESCRIPTION

"An ASCII string containing substrings that describe the expected modem connection response code and associated bps rate. The substrings are delimited by the first character in the string, for example:

```
/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600
```

will be interpreted as:

| response code | bps rate |
|---------------|----------|
| CONNECT       | 300      |
| CONNECT 1200  | 1200     |
| CONNECT 2400  | 2400     |
| CONNECT 4800  | 4800     |
| CONNECT 9600  | 9600     |

The agent will use the information in this string to adjust the bps rate of this serial interface once a modem connection is established.

A value that is appropriate for a wide variety of modems is:

```
'/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/  
CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/  
CONNECT  
19200/19200/CONNECT 38400/38400/'."  
::= { serialConfigEntry 6 }
```

serialModemNoConnectResp OBJECT-TYPE

SYNTAX DisplayString (SIZE (0..255))

MAX-ACCESS read-create

STATUS deprecated

## DESCRIPTION

"An ASCII string containing response codes that may be generated by a modem to report the reason why a connection attempt has failed. The response codes are delimited by the first character in the string, for example:

```
/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/
```

If one of these response codes is received via this serial interface while attempting to make a modem connection, the agent will issue the hang up command as specified by serialModemHangUpString.

A value that is appropriate for a wide variety of modems is:

```
'/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/'
```

```
::= { serialConfigEntry 7 }
```

serialDialoutTimeout OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS

read-create

STATUS deprecated

DESCRIPTION

"This timeout value is used when the probe initiates the serial connection with the intention of contacting a management station. This variable represents the number of seconds of inactivity allowed before terminating the connection on this serial interface."

```
DEFVAL { 20 }
```

```
::= { serialConfigEntry 8 }
```

serialStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

```
::= { serialConfigEntry 9 }
```

netConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A table of netConfigEntries.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."  
::= { probeConfig 11 }

netConfigEntry OBJECT-TYPE

SYNTAX NetConfigEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A set of configuration parameters for a particular network interface on this device. If the device has no network interface, this table is empty.

The index is composed of the ifIndex assigned to the corresponding interface."

INDEX { ifIndex }

::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {

netConfigIPAddress IpAddress,

netConfigSubnetMask IpAddress,

netConfigStatus RowStatus

}

netConfigIPAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP address of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on the network, this value must be configured (e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 1 }

netConfigSubnetMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The subnet mask of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on

the network, this value must be configured

(e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."

::= { netConfigEntry 2 }

netConfigStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this netConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { netConfigEntry 3 }

netDefaultGateway OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS deprecated

DESCRIPTION

"The IP Address of the default gateway. If this value is undefined or unknown, it shall have the value 0.0.0.0."

::= { probeConfig 12 }

-- Trap Destination Table

--

-- This table defines the destination addresses for traps generated

-- from the device. This table maps a community to one or more trap destination entries.

--

-- The same trap will be sent to all destinations specified in the entries that have the same trapDestCommunity as the eventCommunity (as defined by RMON MIB), as long as no access control mechanism (e.g., VACM) prohibits sending to one or more of the destinations.  
-- Information in this table will be stored in non-volatile memory.

-- If the device has gone through a hard restart, this information  
-- will be reset to its default state.

trapDestTable OBJECT-TYPE  
SYNTAX SEQUENCE OF TrapDestEntry  
MAX-ACCESS not-accessible  
STATUS deprecated  
DESCRIPTION  
"A list of trap destination entries."  
 ::= { probeConfig 13 }

trapDestEntry OBJECT-TYPE  
SYNTAX TrapDestEntry  
MAX-ACCESS not-accessible  
STATUS deprecated  
DESCRIPTION  
"This entry includes a destination IP address to which  
traps are sent for this community."  
INDEX { trapDestIndex }  
 ::= { trapDestTable 1 }

TrapDestEntry ::= SEQUENCE {  
trapDestIndex Integer32,  
trapDestCommunity OCTET STRING,  
trapDestProtocol INTEGER,  
trapDestAddress OCTET STRING,  
trapDestOwner OwnerString,  
trapDestStatus RowStatus  
}

trapDestIndex OBJECT-TYPE  
SYNTAX Integer32 (1..65535)  
MAX-ACCESS not-accessible  
STATUS deprecated  
DESCRIPTION  
"A value that uniquely identifies this trapDestEntry."  
 ::= { trapDestEntry 1 }

trapDestCommunity OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(0..127))  
MAX-ACCESS read-create  
STATUS deprecated  
DESCRIPTION  
"A community to which this destination address belongs.  
This entry is associated with any eventEntries in the RMON

MIB whose value of eventCommunity is equal to the value of this object. Every time an associated event entry sends a

trap due to an event, that trap will be sent to each

address in the trapDestTable with a trapDestCommunity equal to eventCommunity, as long as no access control mechanism precludes it (e.g., VACM).

This object may not be modified if the associated trapDestStatus object is equal to active(1)."

::= { trapDestEntry 2 }

trapDestProtocol OBJECT-TYPE

SYNTAX INTEGER {

ip(1),

ipx(2)

}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The protocol with which this trap is to be sent."

::= { trapDestEntry 3 }

trapDestAddress OBJECT-TYPE

SYNTAX OCTET STRING

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The destination address for traps on behalf of this entry.

If the associated trapDestProtocol object is equal to ip(1), the encoding of this object is the same as the snmpUDPAddress textual

convention in RFC 3417, 'Transport Mappings for the

Simple Network Management Protocol (SNMP)' [RFC3417]:

-- for a SnmpUDPAddress of length 6:

--

-- octets contents encoding

-- 1-4 IP-address network-byte order

-- 5-6 UDP-port network-byte order

If the associated trapDestProtocol object is equal to ipx(2), the encoding of this object is the same as the snmpIPXAddress textual convention in RFC 3417, 'Transport Mappings for the Simple Network Management Protocol (SNMP)' [RFC3417]:

```
-- for a SnmpIPXAddress of length 12:
--
-- octets contents encoding
-- 1-4 network-number network-byte order
-- 5-10 physical-address network-byte order
-- 11-12 socket-number network-byte order
```

This object may not be modified if the associated

```
trapDestStatus object
is equal to active(1)."
::= { trapDestEntry 4 }
```

```
trapDestOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"The entity that configured this entry and is
therefore using the resources assigned to it."
::= { trapDestEntry 5 }
```

```
trapDestStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"The status of this trap destination entry.
```

An entry may not exist in the active state unless all  
objects in the entry have an appropriate value."

```
::= { trapDestEntry 6 }
```

```
-- Serial Connection Table
--
-- The device may communicate with a management station using
-- SLIP. In order for the device to send traps via SLIP, it must
-- be able to initiate a connection over the serial interface. The
-- serialConnectionTable stores the parameters for such connection
-- initiation.
```

```
serialConnectionTable OBJECT-TYPE
SYNTAX SEQUENCE
OF SerialConnectionEntry
MAX-ACCESS not-accessible
STATUS deprecated
```

DESCRIPTION

"A list of serialConnectionEntries.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { probeConfig 14 }

serialConnectionEntry OBJECT-TYPE

SYNTAX SerialConnectionEntry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Configuration for a SLIP link over a serial line."

INDEX { serialConnectIndex }

::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {

serialConnectIndex Integer32,  
serialConnectDestIpAddress IpAddress,  
serialConnectType INTEGER,  
serialConnectDialString ControlString,  
serialConnectSwitchConnectSeq ControlString,  
serialConnectSwitchDisconnectSeq ControlString,  
serialConnectSwitchResetSeq ControlString,  
serialConnectOwner OwnerString,  
serialConnectStatus RowStatus  
}

serialConnectIndex OBJECT-TYPE

SYNTAX Integer32 (1..65535)

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"A value that uniquely identifies this serialConnection entry."

::= { serialConnectionEntry 1 }

serialConnectDestIpAddress OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The IP Address that can be reached at the other end of this serial connection.



This object may not be modified if the associated serialConnectStatus object is equal to active(1)."  
::= { serialConnectionEntry 2 }

serialConnectType OBJECT-TYPE

SYNTAX INTEGER {  
    direct(1),  
    modem(2),  
    switch(3),  
    modemSwitch(4)  
}

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The type of outgoing connection to be made. If this object has the value direct(1), then a direct serial connection is assumed. If this object has the value modem(2), then serialConnectDialString will be used to make a modem connection. If this object has the value switch(3), then serialConnectSwitchConnectSeq will be used to establish the connection over a serial data switch, and serialConnectSwitchDisconnectSeq will be used to terminate the connection. If this object has the value modem-switch(4), then a modem connection will be made first, followed by the switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

DEFVAL { direct }

::= { serialConnectionEntry 3 }

serialConnectDialString OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to dial the phone number in order to establish a modem connection. The string should include the dialing prefix and suffix. For example: '^s^MATD9,888-1234^M' will instruct the Probe to send a carriage return, followed by the dialing prefix 'ATD', the phone number '9,888-1234', and a carriage

return as the dialing suffix.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to establish a data switch connection.

This object may not be modified if the associated serialConnectStatus object is

equal to active(1)."

::= { serialConnectionEntry 5 }

serialConnectSwitchDisconnectSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to terminate a data switch connection.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq OBJECT-TYPE

SYNTAX ControlString (SIZE(0..255))

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"A control string that specifies how to reset a data switch in the event of a timeout.

This object may not be modified if the associated serialConnectStatus object is equal to active(1)."

::= { serialConnectionEntry 7 }

serialConnectOwner OBJECT-TYPE

SYNTAX OwnerString

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The entity that configured this entry and is therefore using the resources assigned to it."

::= { serialConnectionEntry 8 }

serialConnectStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS deprecated

DESCRIPTION

"The status of this serialConnectionEntry.

If the manager attempts to set this object to active(1) when the serialConnectType is set to modem(2) or modem-switch(4) and the serialConnectDialString is a zero-length string or cannot be correctly parsed as a ConnectString, the set request will be rejected with badValue(3).

If the manager attempts to set this object to active(1) when the serialConnectType is set to switch(3) or modem-switch(4) and the serialConnectSwitchConnectSeq, the serialConnectSwitchDisconnectSeq, or

the serialConnectSwitchResetSeq is a zero-length string or cannot be correctly parsed as a ConnectString,

the set

request will be rejected with badValue(3).

An entry may not exist in the active state unless all objects in the entry have an appropriate value."

::= { serialConnectionEntry 9 }

--

-- Extensions to the RMON 1 MIB for RMON 2 devices

--

-- These extensions include the standard LastCreateTime Textual  
-- Convention for all control tables, as well as an augmentation of  
-- the filter entry that provides variable-length offsets into  
-- packets.

-- Each of the following, except for filterDroppedFrames, is a  
-- read-only object which, if implemented, automatically appears when  
-- the RMON1 row it is associated with is created.

etherStats2Table OBJECT-TYPE  
SYNTAX SEQUENCE OF EtherStats2Entry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
 ::= { statistics 4 }

etherStats2Entry OBJECT-TYPE  
SYNTAX EtherStats2Entry  
MAX-ACCESS not-accessible  
STATUS  
current  
DESCRIPTION  
"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { etherStatsEntry }  
 ::= { etherStats2Table 1 }

EtherStats2Entry ::= SEQUENCE {  
etherStatsDroppedFrames Counter32,  
etherStatsCreateTime LastCreateTime  
}

etherStatsDroppedFrames OBJECT-TYPE  
SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { etherStats2Entry  
1 }

etherStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { etherStats2Entry 2 }

historyControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { history 5 }

historyControl2Entry OBJECT-TYPE

SYNTAX HistoryControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { historyControlEntry }

::= { historyControl2Table 1 }

HistoryControl2Entry ::= SEQUENCE {

historyControlDroppedFrames Counter32

}

historyControlDroppedFrames

OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted

because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { historyControl2Entry 1 }
```

hostControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

```
::= { hosts 4 }
```

hostControl2Entry OBJECT-TYPE

SYNTAX HostControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { hostControlEntry }

```
::= { hostControl2Table 1 }
```

```
HostControl2Entry ::= SEQUENCE {
```

```
  hostControlDroppedFrames Counter32,
```

```
  hostControlCreateTime LastCreateTime
```

```
}
```

hostControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number

of frames dropped."

::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { hostControl2Entry 2 }

matrixControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF MatrixControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { matrix 4 }

matrixControl2Entry OBJECT-TYPE

SYNTAX MatrixControl2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { matrixControlEntry }

::= { matrixControl2Table 1 }

MatrixControl2Entry ::= SEQUENCE {

matrixControlDroppedFrames Counter32,

matrixControlCreateTime LastCreateTime

}

matrixControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the

probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { matrixControl2Entry 1 }

matrixControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this control entry was last

activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { matrixControl2Entry 2 }

channel2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Channel2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

::= { filter 3 }

channel2Entry OBJECT-TYPE

SYNTAX Channel2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { channelEntry }

::= { channel2Table 1 }

Channel2Entry ::= SEQUENCE {

channelDroppedFrames Counter32,

channelCreateTime LastCreateTime

}

channelDroppedFrames OBJECT-TYPE



SYNTAX Counter32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but

that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE

SYNTAX LastCreateTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { channel2Entry 2 }

tokenRingMLStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingMLStats2Entry  
MAX-ACCESS not-accessible  
STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 5 }

tokenRingMLStats2Entry OBJECT-TYPE

SYNTAX TokenRingMLStats2Entry  
MAX-ACCESS not-accessible  
STATUS deprecated  
DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."  
AUGMENTS { tokenRingMLStatsEntry }

::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {  
tokenRingMLStatsDroppedFrames Counter32,  
tokenRingMLStatsCreateTime LastCreateTime  
}

tokenRingMLStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe  
and therefore not accounted for in the \*StatsDropEvents, but  
that the probe

chose not to count for this entry for

whatever reason. Most often, this event occurs when the  
probe is out of some resources and decides to shed load from  
this collection.

This count does not include packets that were not counted  
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the  
exact number of frames dropped."

::= { tokenRingMLStats2Entry 1 }

tokenRingMLStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last  
activated. This can be used by the management station to  
ensure that the table has not been deleted and recreated  
between polls."

::= { tokenRingMLStats2Entry 2 }

tokenRingPStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { statistics 6 }

tokenRingPStats2Entry OBJECT-TYPE

SYNTAX TokenRingPStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { tokenRingPStatsEntry }

::= { tokenRingPStats2Table 1 }

TokenRingPStats2Entry ::= SEQUENCE {

tokenRingPStatsDroppedFrames Counter32,

tokenRingPStatsCreateTime LastCreateTime

}

tokenRingPStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to count

for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { tokenRingPStats2Entry 2 }

ringStationControl2Table OBJECT-TYPE

SYNTAX SEQUENCE OF RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

#### DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

::= { tokenRing 7 }

ringStationControl2Entry OBJECT-TYPE

SYNTAX RingStationControl2Entry

MAX-ACCESS not-accessible

STATUS deprecated

#### DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { ringStationControlEntry }

::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {

ringStationControlDroppedFrames Counter32,

ringStationControlCreateTime LastCreateTime

}

ringStationControlDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

#### DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose not to

count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

```
::= { ringStationControl2Entry 1 }
```

ringStationControlCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to

ensure that the table has not been deleted and recreated between polls."

```
::= { ringStationControl2Entry 2 }
```

sourceRoutingStats2Table OBJECT-TYPE

SYNTAX SEQUENCE OF SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard."

```
::= { tokenRing 8 }
```

sourceRoutingStats2Entry OBJECT-TYPE

SYNTAX SourceRoutingStats2Entry

MAX-ACCESS not-accessible

STATUS deprecated

DESCRIPTION

"Contains the RMON-2 augmentations to RMON-1."

AUGMENTS { sourceRoutingStatsEntry }

```
::= { sourceRoutingStats2Table 1 }
```

SourceRoutingStats2Entry ::= SEQUENCE {

sourceRoutingStatsDroppedFrames Counter32,

sourceRoutingStatsCreateTime LastCreateTime

}

sourceRoutingStatsDroppedFrames OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the \*StatsDropEvents, but that the probe chose

not to count for this entry for

whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."

::= { sourceRoutingStats2Entry 1 }

sourceRoutingStatsCreateTime OBJECT-TYPE

SYNTAX LastCreateTime

MAX-ACCESS read-only

STATUS deprecated

DESCRIPTION

"The value of sysUpTime when this control entry was last activated. This can be used by the management station to ensure that the table has not been deleted and recreated between polls."

::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE

SYNTAX SEQUENCE OF Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides a variable-length packet filter feature to the RMON-1 filter table."

::= { filter 4 }

filter2Entry OBJECT-TYPE

SYNTAX Filter2Entry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Provides a variable-length packet filter feature to the RMON-1 filter table."

AUGMENTS { filterEntry }  
::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {  
 filterProtocolDirDataLocalIndex Integer32,  
 filterProtocolDirLocalIndex Integer32  
}

filterProtocolDirDataLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that it is associated with performs the following operations on every packet:

1) If the packet doesn't match the protocol directory entry identified by this object, discard the packet and exit (i.e., discard the packet if it

is not of the identified protocol).

2) If the associated filterProtocolDirLocalIndex is non-zero and the packet doesn't match the protocol directory entry identified by that object, discard the packet and exit.

3) If the packet matches, perform the regular filter algorithm as if the beginning of this named protocol is the beginning of the packet, potentially applying the filterOffset value to move further into the packet."

DEFVAL { 0 }

::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE

SYNTAX Integer32 (0..2147483647)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"When this object is set to a non-zero value, the filter that it is associated with will discard the packet if the packet doesn't match this protocol directory entry."

DEFVAL { 0 }

::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT

IDENTIFIER ::= { rmonConformance 1 }

rmon2MIBGroups OBJECT IDENTIFIER ::= { rmonConformance 2 }

rmon2MIBCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Describes the requirements for conformance to  
the RMON2 MIB"

MODULE -- this module

MANDATORY-GROUPS { protocolDirectoryGroup,  
protocolDistributionGroup,  
addressMapGroup,  
nlHostGroup,  
nlMatrixGroup,  
usrHistoryGroup,  
probeInformationGroup }

OBJECT nlMatrixTopNControlRateBase

SYNTAX INTEGER {

nlMatrixTopNPkts(1),

nlMatrixTopNOctets(2)

}

DESCRIPTION

"Conformance to RMON2 requires only support for these  
values of nlMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems  
that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is  
appropriate for systems that implement the Ethernet  
group of RMON [RFC2819]."

::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION



"Describes the requirements for conformance to the RMON2 MIB with Application-Layer Enhancements."

MODULE -- this module

```
MANDATORY-GROUPS { protocolDirectoryGroup,
                    protocolDistributionGroup,
                    addressMapGroup,
                    nlHostGroup,
                    nlMatrixGroup,
                    alHostGroup,
                    alMatrixGroup,
                    usrHistoryGroup,
                    probeInformationGroup }
```

OBJECT nlMatrixTopNControlRateBase

```
SYNTAX INTEGER {
    nlMatrixTopNPkts(1),
    nlMatrixTopNOctets(2)
}
```

DESCRIPTION

"Conformance to RMON2 requires only support for these values of nlMatrixTopNControlRateBase."

OBJECT alMatrixTopNControlRateBase

```
SYNTAX INTEGER {
    alMatrixTopNTerminalsPkts(1),
    alMatrixTopNTerminalsOctets(2),
    alMatrixTopNAllPkts(3),
    alMatrixTopNAllOctets(4)
}
```

DESCRIPTION

"Conformance to RMON2 requires only support for these

values of alMatrixTopNControlRateBase."

GROUP rmon1EnhancementGroup

DESCRIPTION

"The rmon1EnhancementGroup is mandatory for systems that implement RMON [RFC2819]."

GROUP rmon1EthernetEnhancementGroup

DESCRIPTION

"The rmon1EthernetEnhancementGroup is optional and is appropriate for systems that implement the Ethernet group of RMON [RFC2819]."

::= { rmon2MIBCompliances 2 }

protocolDirectoryGroup OBJECT-GROUP

OBJECTS { protocolDirLastChange,  
protocolDirLocalIndex, protocolDirDescr,  
protocolDirType, protocolDirAddressMapConfig,  
protocolDirHostConfig, protocolDirMatrixConfig,  
protocolDirOwner, protocolDirStatus }

STATUS current

DESCRIPTION

"Lists the inventory of protocols the probe has the capability of monitoring and allows the addition, deletion, and configuration of entries in this list."

::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP

OBJECTS { protocolDistControlDataSource,  
protocolDistControlDroppedFrames,  
protocolDistControlCreateTime,  
protocolDistControlOwner, protocolDistControlStatus,  
protocolDistStatsPkts, protocolDistStatsOctets }

STATUS current

DESCRIPTION

"Collects the relative amounts of octets and packets for the different protocols detected on a network segment."

::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP

OBJECTS { addressMapInserts, addressMapDeletes,  
addressMapMaxDesiredEntries,  
addressMapControlDataSource,  
addressMapControlDroppedFrames,  
addressMapControlOwner, addressMapControlStatus,  
addressMapPhysicalAddress,  
addressMapLastChange }

STATUS current

DESCRIPTION

"Lists MAC address to network address bindings discovered by the probe and what interface they were last seen on."

::= { rmon2MIBGroups 3 }

nlHostGroup OBJECT-GROUP

OBJECTS { nlHostControlDataSource,  
nlHostControlNIDroppedFrames, nlHostControlNIInserts,  
nlHostControlNIDeletes,  
nlHostControlNIMaxDesiredEntries,

hlHostControlAIDroppedFrames, hlHostControlAIInserts,  
hlHostControlAIDeletes,  
hlHostControlAIMaxDesiredEntries, hlHostControlOwner,  
hlHostControlStatus, nlHostInPkts, nlHostOutPkts,  
nlHostInOctets, nlHostOutOctets,  
nlHostOutMacNonUnicastPkts, nlHostCreateTime }

STATUS current

DESCRIPTION

"Counts the amount of traffic sent from and to each network address discovered by the probe. Note that while the hlHostControlTable also has objects that control an optional alHostTable, implementation of the alHostTable is not required to fully implement this group."

::= { rmon2MIBGroups 4 }

nlMatrixGroup OBJECT-GROUP

OBJECTS { hlMatrixControlDataSource,  
hlMatrixControlNIDroppedFrames,  
hlMatrixControlNIInserts, hlMatrixControlNIDeletes,  
hlMatrixControlNIMaxDesiredEntries,  
hlMatrixControlAIDroppedFrames,  
hlMatrixControlAIInserts, hlMatrixControlAIDeletes,  
hlMatrixControlAIMaxDesiredEntries,  
hlMatrixControlOwner, hlMatrixControlStatus,  
nlMatrixSDPkts, nlMatrixSDOctets, nlMatrixSDCreateTime,  
nlMatrixDSPkts, nlMatrixDSOctets, nlMatrixDSCreateTime,  
nlMatrixTopNControlMatrixIndex,  
nlMatrixTopNControlRateBase,  
nlMatrixTopNControlTimeRemaining,  
nlMatrixTopNControlGeneratedReports,  
nlMatrixTopNControlDuration,  
nlMatrixTopNControlRequestedSize,  
nlMatrixTopNControlGrantedSize,  
nlMatrixTopNControlStartTime,  
nlMatrixTopNControlOwner, nlMatrixTopNControlStatus,  
nlMatrixTopNProtocolDirLocalIndex,  
nlMatrixTopNSourceAddress,

nlMatrixTopNDestAddress,  
nlMatrixTopNPktRate, nlMatrixTopNReversePktRate,

nlMatrixTopNOctetRate, nlMatrixTopNReverseOctetRate }

STATUS current

DESCRIPTION

"Counts the amount of traffic sent between each pair of network addresses discovered by the probe. Note that while the hlMatrixControlTable also has objects that control

optional alMatrixTables, implementation of the  
alMatrixTables is not required to fully implement this  
group."  
 ::= { rmon2MIBGroups 5 }

#### alHostGroup OBJECT-GROUP

OBJECTS { alHostInPkts, alHostOutPkts,  
alHostInOctets, alHostOutOctets, alHostCreateTime }

STATUS current

#### DESCRIPTION

"Counts the amount of traffic, by protocol, sent from and to  
each network address discovered by the probe. Implementation  
of this group requires implementation of the Network-Layer  
Host Group."

::= { rmon2MIBGroups 6 }

#### alMatrixGroup

##### OBJECT-GROUP

OBJECTS { alMatrixSDPkts, alMatrixSDOctets, alMatrixSDCreateTime,  
alMatrixDSPkts, alMatrixDSOctets, alMatrixDSCreateTime,  
alMatrixTopNControlMatrixIndex,  
alMatrixTopNControlRateBase,  
alMatrixTopNControlTimeRemaining,  
alMatrixTopNControlGeneratedReports,  
alMatrixTopNControlDuration,  
alMatrixTopNControlRequestedSize,  
alMatrixTopNControlGrantedSize,  
alMatrixTopNControlStartTime,  
alMatrixTopNControlOwner, alMatrixTopNControlStatus,  
alMatrixTopNProtocolDirLocalIndex,  
alMatrixTopNSourceAddress, alMatrixTopNDestAddress,  
alMatrixTopNAppProtocolDirLocalIndex,  
alMatrixTopNPktRate, alMatrixTopNReversePktRate,  
alMatrixTopNOctetRate, alMatrixTopNReverseOctetRate }

STATUS current

#### DESCRIPTION

"Counts the amount of traffic, by protocol, sent between each  
pair of network addresses discovered by the  
probe. Implementation of this group requires implementation  
of the Network-Layer Matrix Group."

::= { rmon2MIBGroups 7 }

#### usrHistoryGroup OBJECT-GROUP

OBJECTS { usrHistoryControlObjects,  
usrHistoryControlBucketsRequested,

usrHistoryControlBucketsGranted,  
usrHistoryControlInterval,  
usrHistoryControlOwner, usrHistoryControlStatus,  
usrHistoryObjectVariable, usrHistoryObjectSampleType,  
usrHistoryIntervalStart, usrHistoryIntervalEnd,  
usrHistoryAbsValue, usrHistoryValStatus }

STATUS current

DESCRIPTION

"The usrHistoryGroup provides user-defined collection of historical information from MIB objects on the probe."

::= { rmon2MIBGroups 8 }

probeInformationGroup OBJECT-GROUP

OBJECTS { probeCapabilities,  
probeSoftwareRev, probeHardwareRev, probeDateTime }

STATUS current

DESCRIPTION

"This group describes various operating parameters of the probe and controls the local time of the probe."

::= { rmon2MIBGroups 9 }

probeConfigurationGroup OBJECT-GROUP

OBJECTS { probeResetControl, probeDownloadFile,  
probeDownloadTFTPServer, probeDownloadAction,  
probeDownloadStatus,  
serialMode, serialProtocol, serialTimeout,  
serialModemInitString, serialModemHangUpString,  
serialModemConnectResp, serialModemNoConnectResp,  
serialDialoutTimeout, serialStatus,  
netConfigIPAddress, netConfigSubnetMask,  
netConfigStatus, netDefaultGateway,  
trapDestCommunity, trapDestProtocol, trapDestAddress,  
trapDestOwner, trapDestStatus,  
serialConnectDestIpAddress, serialConnectType,  
serialConnectDialString, serialConnectSwitchConnectSeq,  
serialConnectSwitchDisconnectSeq,  
serialConnectSwitchResetSeq,  
serialConnectOwner, serialConnectStatus }

STATUS deprecated

DESCRIPTION

"This group controls the configuration of various operating parameters of the probe. This group is not referenced by any MODULE-COMPLIANCE macro because it is 'grandfathered' from more recent MIB review rules that would require it."

::= { rmon2MIBGroups 10 }

```
rmon1EnhancementGroup OBJECT-GROUP
  OBJECTS { historyControlDroppedFrames, hostControlDroppedFrames,
            hostControlCreateTime, matrixControlDroppedFrames,
            matrixControlCreateTime, channelDroppedFrames,
            channelCreateTime, filterProtocolDirDataLocalIndex,
            filterProtocolDirLocalIndex }
  STATUS current
  DESCRIPTION
    "This group adds some enhancements to RMON-1 that help
    management stations."
  ::= { rmon2MIBGroups 11 }
```

```
rmon1EthernetEnhancementGroup OBJECT-GROUP
  OBJECTS { etherStatsDroppedFrames,
            etherStatsCreateTime }
  STATUS current
  DESCRIPTION
    "This group adds some enhancements to RMON-1 that help
    management stations."
  ::= { rmon2MIBGroups 12 }
```

```
rmon1TokenRingEnhancementGroup OBJECT-GROUP
  OBJECTS { tokenRingMLStatsDroppedFrames,
            tokenRingMLStatsCreateTime,
            tokenRingPStatsDroppedFrames, tokenRingPStatsCreateTime,
            ringStationControlDroppedFrames,
            ringStationControlCreateTime,
            sourceRoutingStatsDroppedFrames,
            sourceRoutingStatsCreateTime }
  STATUS deprecated
  DESCRIPTION
    "This group adds some enhancements to RMON-1 that help
    management stations. This group is not referenced by any
    MODULE-COMPLIANCE macro because it is 'grandfathered' from
    more recent MIB review rules that would require it."
  ::= { rmon2MIBGroups 13 }
END
```

Found in path(s):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-
MIB
```

No license file was found, but licenses were detected in source scan.

```
SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN
```

```
IMPORTS
```

```
  MODULE-IDENTITY, OBJECT-TYPE,
```

OBJECT-IDENTITY,  
snmpModules FROM SNMPv2-SMI  
TEXTUAL-CONVENTION FROM SNMPv2-TC  
MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY  
LAST-UPDATED "200210140000Z"  
ORGANIZATION "SNMPv3 Working Group"  
CONTACT-INFO "WG-EMail: snmpv3@lists.tislabs.com  
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"

DESCRIPTION "The SNMP Management Architecture MIB

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"

REVISION "200210140000Z" -- 14 October 2002

DESCRIPTION "Changes in this revision:

- Updated various administrative information.
- Corrected some typos.
- Corrected typo in description of SnmpEngineID that led to range overlap for 127.
- Changed '255a' to '255t' in definition of SnmpAdminString to align with current SMI.
- Reworded 'reserved' for value zero in DESCRIPTION of SnmpSecurityModel.
- The algorithm for allocating security models should give

256 per enterprise block, rather than 255.

- The example engine ID of 'abcd' is not legal. Replaced with '800002b804616263'H based on example enterprise 696, string 'abc'.
- Added clarification that engineID should persist across re-initializations.

This revision published as RFC 3411.

"

REVISION "199901190000Z" -- 19 January 1999

DESCRIPTION "Updated editors' addresses, fixed typos.

Published as RFC 2571.

"

REVISION "199711200000Z" -- 20 November 1997

DESCRIPTION "The initial version, published in RFC 2271.

"

::= { snmpModules 10 }

-- Textual Conventions used in the SNMP Management Architecture \*\*\*

SnmpEngineID ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier.

Objects of this type are for identification, not for addressing, even though it is possible that an address may have been used in the generation of



a specific value.

The value for this object may not be all zeros or all 'ff'H or the empty (zero length) string.

The initial value for this object may be configured via an operator console entry or via an algorithmic function. In the latter case, the following example algorithm is recommended.

In cases where there are multiple engines on the same system, the use of this algorithm is NOT appropriate, as it would result in all of those engines ending up with the same ID value.

1) The very first bit is used to indicate how the

rest of the data is composed.

0 - as defined by enterprise using former methods that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3 below.

Note that this allows existing uses of the engineID (also known as AgentID [RFC1910]) to co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The remaining eight octets are determined via

one or more enterprise-specific methods. Such methods must be designed so as to maximize the possibility that the value of this object will be unique in the agent's administrative domain. For example, it may be the IP address of the SNMP

entity, or the MAC address of one of the interfaces, with each address suitably padded with random octets. If multiple methods are defined, then it is recommended that the first octet indicate the method being used and the remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary equivalent of the agent's SNMP management private enterprise number as assigned by the Internet Assigned Numbers Authority (IANA). For example, if Acme Networks has been assigned { enterprises 696 }, the first four octets would be assigned '000002b8'H.

The very first bit is set to 1. For example, the above value for Acme Networks now changes to be '800002b8'H.

The fifth octet indicates how the rest (6th and following octets) are formatted. The values for the fifth octet are:

- 0 - reserved, unused.
- 1 - IPv4 address (4 octets)  
lowest non-special IP address
- 2 - IPv6 address (16 octets)  
lowest non-special IP address
- 3 - MAC address (6 octets)  
lowest IEEE MAC address, canonical  
order
- 4 - Text, administratively assigned  
Maximum remaining length 27
- 5 - Octets, administratively assigned  
Maximum remaining length 27
- 6-127 - reserved, unused

128-255 - as defined by the enterprise

Maximum remaining length 27

"

SYNTAX OCTET STRING (SIZE(5..32))

SnmSecurityModel ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "An identifier that uniquely identifies a Security Model of the Security Subsystem within this SNMP Management Architecture.

The values for securityModel are allocated as follows:

- The zero value does not identify any particular security model.

- Values between 1 and 255, inclusive,

are reserved

for standards-track Security Models and are managed by the Internet Assigned Numbers Authority (IANA).

- Values greater than 255 are allocated to enterprise-specific Security Models. An enterprise-specific securityModel value is defined to be:

$\text{enterpriseID} * 256 + \text{security model}$  within enterprise

For example, the fourth Security Model defined by the enterprise whose enterpriseID is 1 would be 259.

This scheme for allocation of securityModel values allows for a maximum of 255 standards-based Security Models, and for a maximum of 256 Security Models per enterprise.

It is believed that the assignment of new

securityModel values will be rare in practice because the larger the number of simultaneously utilized Security Models, the larger the chance that interoperability will suffer. Consequently, it is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard

securityModels. This limits the ability to define new proprietary implementations of Security Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the securityModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of securityModel defined for use with SNMP or reserved for use with supporting MIB objects. They are as follows:

- 0 reserved for 'any'
- 1 reserved for SNMPv1
- 2 reserved for SNMPv2c
- 3 User-Based Security Model (USM)

"

SYNTAX INTEGER(0 .. 2147483647)

SnmMessageProcessingModel ::= TEXTUAL-CONVENTION  
STATUS current  
DESCRIPTION "An identifier that uniquely identifies a Message Processing Model of the Message Processing Subsystem within this SNMP Management

## Architecture.

The values for messageProcessingModel are allocated as follows:

- Values between 0 and 255, inclusive, are reserved for standards-track Message Processing Models and are managed by the Internet Assigned Numbers Authority (IANA).
- Values greater than 255 are allocated to enterprise-specific Message Processing Models. An enterprise messageProcessingModel value is defined to be:

$\text{enterpriseID} * 256 +$   
messageProcessingModel within enterprise

For example, the fourth Message Processing Model defined by the enterprise whose enterpriseID

is 1 would be 259.

This scheme for allocating messageProcessingModel values allows for a maximum of 255 standards-based Message Processing Models, and for a maximum of 256 Message Processing Models per enterprise.

It is believed that the assignment of new messageProcessingModel values will be rare in practice because the larger the number of simultaneously utilized Message Processing Models, the larger the chance that interoperability will suffer. It is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard messageProcessingModels. This limits the ability to define new proprietary implementations of

Message Processing Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the messageProcessingModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of messageProcessingModel defined for use with SNMP. They are as follows:

- 0 reserved for SNMPv1
- 1 reserved for SNMPv2c
- 2 reserved for SNMPv2u and SNMPv2\*
- 3 reserved for SNMPv3

"

SYNTAX INTEGER(0 .. 2147483647)

SnmSecurityLevel

::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION "A Level of Security at which SNMP messages can be sent or with which operations are being processed; in particular, one of:

- noAuthNoPriv - without authentication and without privacy,
- authNoPriv - with authentication but without privacy,
- authPriv - with authentication and with privacy.

These three values are ordered such that noAuthNoPriv is less than authNoPriv and authNoPriv is less than authPriv.

"

SYNTAX INTEGER { noAuthNoPriv(1),  
authNoPriv(2),  
authPriv(3)  
}

SnmpAdminString ::= TEXTUAL-CONVENTION  
DISPLAY-HINT "255t"  
STATUS  
current  
DESCRIPTION "An octet string containing administrative  
information, preferably in human-readable form.

To facilitate internationalization, this information is represented using the ISO/IEC IS 10646-1 character set, encoded as an octet string using the UTF-8 transformation format described in [RFC2279].

Since additional code points are added by amendments to the 10646 standard from time to time, implementations must be prepared to encounter any code point from 0x00000000 to 0x7fffffff. Byte sequences that do not correspond to the valid UTF-8 encoding of a code point or are outside this range are prohibited.

The use of control codes should be avoided.

When it is necessary to represent a newline,  
  
the control code sequence CR LF should be used.

The use of leading or trailing white space should be avoided.

For code points not directly supported by user interface hardware or software, an alternative means of entry and display, such as hexadecimal, may be provided.

For information encoded in 7-bit US-ASCII, the UTF-8 encoding is identical to the US-ASCII encoding.

UTF-8 may require multiple bytes to represent a single character / code point; thus the length of this object in octets may be different from the number of characters encoded. Similarly,

size constraints refer to the number of encoded octets, not the number of characters represented by an encoding.

Note that when this TC is used for an object that is used or envisioned to be used as an index, then a SIZE restriction MUST be specified so that the number of sub-identifiers for any object instance does not exceed the limit of 128, as defined by [RFC3416].

Note that the size of an SnmpAdminString object is measured in octets, not characters.

"

SYNTAX OCTET STRING (SIZE (0..255))

-- Administrative assignments \*\*\*\*\*

snmpFrameworkAdmin

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 1 }

snmpFrameworkMIBObjects

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 2 }

snmpFrameworkMIBConformance

OBJECT IDENTIFIER ::= { snmpFrameworkMIB 3 }

-- the snmpEngine Group \*\*\*\*\*

snmpEngine OBJECT IDENTIFIER ::= { snmpFrameworkMIBObjects 1 }

snmpEngineID OBJECT-TYPE

SYNTAX SnmpEngineID

MAX-ACCESS read-only

STATUS current

DESCRIPTION "An SNMP engine's administratively-unique identifier.

This information SHOULD be stored in non-volatile storage so that it remains constant across re-initializations of the SNMP engine.

"

::= { snmpEngine 1 }



```

snmpEngineBoots OBJECT-TYPE
    SYNTAX    INTEGER (1..2147483647)
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION "The number of times that the SNMP engine has
                (re-)initialized itself since snmpEngineID
                was last configured.
                "
    ::= { snmpEngine 2 }

snmpEngineTime OBJECT-TYPE
    SYNTAX    INTEGER (0..2147483647)
    UNITS     "seconds"
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION "The number of seconds since the value of
                the snmpEngineBoots object last changed.
                When incrementing this object's value would
                cause it to exceed its maximum,
                snmpEngineBoots is incremented as if a
                re-initialization had occurred, and this
                object's value consequently reverts to zero.
                "
    ::= { snmpEngine 3 }

snmpEngineMaxMessageSize OBJECT-TYPE
    SYNTAX    INTEGER (484..2147483647)
    MAX-ACCESS read-only
    STATUS    current
    DESCRIPTION "The maximum length in octets of an SNMP message
                which this SNMP engine can send or receive and
                process, determined as the minimum of the maximum
                message size values supported among all of the
                transports available to and supported by the engine.
                "
    ::= { snmpEngine 4 }

-- Registration Points for Authentication and Privacy Protocols **

snmpAuthProtocols OBJECT-IDENTITY
    STATUS    current
    DESCRIPTION "Registration point for standards-track
                authentication protocols
                used in SNMP Management
                Frameworks.
                "

```

```

 ::= { snmpFrameworkAdmin 1 }

snmpPrivProtocols OBJECT-IDENTITY
  STATUS    current
  DESCRIPTION "Registration point for standards-track privacy
              protocols used in SNMP Management Frameworks.
              "
 ::= { snmpFrameworkAdmin 2 }

-- Conformance information *****

snmpFrameworkMIBCompliances
  OBJECT IDENTIFIER ::= { snmpFrameworkMIBConformance 1 }
snmpFrameworkMIBGroups
  OBJECT IDENTIFIER ::= { snmpFrameworkMIBConformance 2 }

-- compliance statements

snmpFrameworkMIBCompliance MODULE-COMPLIANCE
  STATUS    current
  DESCRIPTION "The compliance statement for SNMP engines which
              implement the SNMP Management Framework MIB.
              "
  MODULE   -- this module
    MANDATORY-GROUPS { snmpEngineGroup }

 ::= { snmpFrameworkMIBCompliances 1 }

-- units of conformance

snmpEngineGroup
  OBJECT-GROUP
  OBJECTS {
    snmpEngineID,
    snmpEngineBoots,
    snmpEngineTime,
    snmpEngineMaxMessageSize
  }
  STATUS    current
  DESCRIPTION "A collection of objects for identifying and
              determining the configuration and current timeliness

              values of an SNMP engine.
              "
 ::= { snmpFrameworkMIBGroups 1 }

```

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-FRAMEWORK-MIB

No license file was found, but licenses were detected in source scan.

IPSEC-SPD-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, Integer32,  
Unsigned32, mib-2 FROM SNMPv2-SMI  
-- [RFC2578]

TEXTUAL-CONVENTION, RowStatus, TruthValue,  
TimeStamp, StorageType, VariablePointer  
FROM SNMPv2-TC  
-- [RFC2579]

MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP  
FROM SNMPv2-CONF  
-- [RFC2580]

InterfaceIndex  
FROM IF-MIB  
-- [RFC2863]

diffServMIBMultiFieldClfrGroup, IfDirection,  
diffServMultiFieldClfrNextFree  
FROM DIFFSERV-MIB  
-- [RFC3289]

InetAddressType, InetAddress  
FROM INET-ADDRESS-MIB  
-- [RFC4001]

SnmAdminString FROM SNMP-FRAMEWORK-MIB  
-- [RFC3411]

;

--

-- module identity

--

spdMIB MODULE-IDENTITY

LAST-UPDATED "200702070000Z" -- 7 February 2007  
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E-Mail: cliffwangmail@yahoo.com"

#### DESCRIPTION

"This MIB module defines configuration objects for managing IPsec Security Policies. In general, this MIB can be implemented anywhere IPsec security services exist (e.g., bump-in-the-wire, host, gateway, firewall, router, etc.).

Copyright (C) The IETF Trust (2007). This version of this MIB module is part of RFC 4807; see the RFC itself for full legal notices."

-- Revision History

REVISION "200702070000Z" -- 7 February 2007

DESCRIPTION "Initial version, published as RFC 4807."

::= { mib-2 153 }

--

-- groups of related objects

--

spdConfigObjects OBJECT IDENTIFIER

::= { spdMIB 1 }

spdNotificationObjects

OBJECT IDENTIFIER

::= { spdMIB 2 }

spdConformanceObjects OBJECT IDENTIFIER

::= { spdMIB 3 }

spdActions OBJECT IDENTIFIER

::= { spdMIB 4 }

--

-- Textual Conventions

--

SpdBooleanOperator ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The SpdBooleanOperator operator is used to specify whether sub-components in a decision-making process are

ANDed or ORed together to decide if the resulting expression is true or false."

SYNTAX INTEGER { or(1), and(2) }

SpdAdminStatus ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"The SpdAdminStatus is used to specify the administrative status of an object. Objects that are disabled MUST NOT be used by the packet processing engine."

SYNTAX INTEGER { enabled(1), disabled(2) }

SpdIPPacketLogging ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

STATUS current

DESCRIPTION

"SpdIPPacketLogging specifies

whether an audit message

SHOULD be logged if a packet is passed through a Security Association (SA) and if some of that packet is included in the log event. A value of '-1' indicates no logging. A value of '0' or greater indicates that logging SHOULD be done and indicates the number of bytes starting at the beginning of the packet to place in the log. Values greater than the size of the packet being processed indicate that the entire packet SHOULD be sent.

Examples:

'-1' no logging

'0' log but do not include any of the packet in the log

'20' log and include the first 20 bytes of the packet in the log."

SYNTAX Integer32 (-1..65535)

SpdTimePeriod ::= TEXTUAL-CONVENTION

DISPLAY-HINT "31t"

STATUS current

DESCRIPTION

"This property identifies an overall range of calendar dates and time. In a boolean context, a value

within this time

range, inclusive, is considered true.

This information is encoded as an octet string using the UTF-8 transformation format described in STD 63, RFC 3629.

It uses the format suggested in RFC 3060. An octet string

represents a start date and time and an end date and time.

For example:

yyyymmddThhmmss/yyyymmddThhmmss

Where: yyyy = year mm = month dd = day

hh = hour mm = minute ss = second

The first 'yyyymmddThhmmss' sub-string indicates the start date and time. The second 'yyyymmddThhmmss' sub-string indicates the end date and time. The character 'T' within these sub-strings indicates the beginning of the time

portion of each sub-string. The solidus character '/' separates the start from the end date and time. The end date and time MUST be subsequent to the start date and

time.

There are also two allowed substitutes for a 'yyyymmddThhmmss' sub-string: one for the start date and time, and one for the end date and time.

If the start date and time are replaced with the string 'THISANDPRIOR', this sub-string would indicate the current date and time and the previous dates and time.

If the end date and time are replaced with the string 'THISANDFUTURE', this sub-string would indicate the current date and time and the subsequent dates and time.

Any of the following SHOULD be considered a 'wrongValue' error:

- Setting a value with the end date and time earlier than or equal to the start date and time.
- Setting the start date and time to 'THISANDFUTURE'.
- Setting the end date and time to 'THISANDPRIOR'."

REFERENCE "RFC 3060, 3269"

SYNTAX OCTET STRING (SIZE (0..31))

--

-- Policy group definitions

--

spdLocalConfigObjects

OBJECT IDENTIFIER

::= { spdConfigObjects 1 }

spdIngressPolicyGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

#### DESCRIPTION

"This object indicates the global system policy group that is to be applied on ingress packets (i.e., arriving at an interface from a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable.

Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A

zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for ingress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"

DEFVAL { "" }

::= { spdLocalConfigObjects 1 }

spdEgressPolicyGroupName OBJECT-TYPE

SYNTAX

SnmpAdminString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object indicates the policy group containing the global system policy that is to be applied on egress packets (i.e., packets leaving an interface and entering a network) when a given endpoint does not contain a policy definition in the spdEndpointToGroupTable. Its value can be used as an index into the spdGroupContentsTable to retrieve a list of policies. A zero length string indicates that no system-wide policy exists and the default policy of 'drop' SHOULD be executed for egress packets until one is imposed by either this object or by the endpoint processing a given packet.

This object MUST be persistent"

DEFVAL { "" }

::= { spdLocalConfigObjects 2 }

spdEndpointToGroupTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdEndpointToGroupEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table maps policies (groupings) onto an endpoint (interface). A policy group assigned to an endpoint is then used to control access to the network traffic passing through that endpoint.

If an endpoint has been configured with a policy group and no rule within that policy group matches that packet, the default action in this case SHALL be to drop the packet.



If no policy group has been assigned to an endpoint, then the policy group specified by `spdIngressPolicyGroupName` MUST be used on traffic inbound from the network through that endpoint, and the policy group specified by `spdEgressPolicyGroupName` MUST be used for traffic outbound to the network through that endpoint."

::= { `spdConfigObjects` 2 }

`spdEndpointToGroupEntry` OBJECT-TYPE

SYNTAX `SpdEndpointToGroupEntry`

MAX-ACCESS not-accessible

STATUS

current

DESCRIPTION

"A mapping assigning a policy group to an endpoint."

INDEX { `spdEndGroupDirection`, `spdEndGroupInterface` }

::= { `spdEndpointToGroupTable` 1 }

`SpdEndpointToGroupEntry` ::= SEQUENCE {

|                                     |                                |
|-------------------------------------|--------------------------------|
| <code>spdEndGroupDirection</code>   | <code>IfDirection</code> ,     |
| <code>spdEndGroupInterface</code>   | <code>InterfaceIndex</code> ,  |
| <code>spdEndGroupName</code>        | <code>SnmpAdminString</code> , |
| <code>spdEndGroupLastChanged</code> | <code>TimeStamp</code> ,       |
| <code>spdEndGroupStorageType</code> | <code>StorageType</code> ,     |
| <code>spdEndGroupRowStatus</code>   | <code>RowStatus</code>         |

}

`spdEndGroupDirection` OBJECT-TYPE

SYNTAX `IfDirection`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object indicates which direction of packets crossing the interface are associated with which `spdEndGroupName` object. Ingress packets, or packets into the device match when this value is `inbound(1)`. Egress packets or packets out

of the device match when this value is `outbound(2)`."

::= { `spdEndpointToGroupEntry` 1 }

`spdEndGroupInterface` OBJECT-TYPE

SYNTAX `InterfaceIndex`

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This value matches the IF-MIB's ifTable's ifIndex column and indicates the interface associated with a given endpoint. This object can be used to uniquely identify an endpoint that a set of policy groups are applied to."

::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The policy group name to apply at this endpoint. The value of the spdEndGroupName object is then used as an index into the spdGroupContentsTable to come up with a list of rules that MUST be applied at this endpoint."

::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object is considered 'notReady' and MUST NOT be set to active until one or more active rows exist within the spdGroupContentsTable for the group referenced by the spdEndGroupName object."

::= { spdEndpointToGroupEntry 6 }

--

-- policy group definition table

--

spdGroupContentsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of rules and/or subgroups contained within a given policy group. For a given value of spdGroupContName, the set of rows sharing that value forms a 'group'. The rows in a group MUST be processed according to the value of the spdGroupContPriority

object

in each row. The processing MUST be executed starting with the lowest value of spdGroupContPriority and in ascending order thereafter.

If an action is executed as the result of the processing of a row in a group, the processing of further rows in that group MUST stop. Iterating to the next policy group row by finding the next largest spdGroupContPriority object SHALL only be done if no actions were run while processing the current row for a given packet."

::= { spdConfigObjects 3 }

spdGroupContentsEntry OBJECT-TYPE

SYNTAX SpdGroupContentsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a given sub-component within a policy group. A sub-component is either a rule or another group as indicated by spdGroupContComponentType and referenced by spdGroupContComponentName."

INDEX { spdGroupContName,  
spdGroupContPriority }  
::= { spdGroupContentsTable 1 }

SpdGroupContentsEntry ::= SEQUENCE {  
    spdGroupContName                SnmAdminString,  
    spdGroupContPriority             Integer32,  
    spdGroupContFilter              VariablePointer,  
    spdGroupContComponentType      INTEGER,  
    spdGroupContComponentName      SnmAdminString,  
    spdGroupContLastChanged         TimeStamp,  
    spdGroupContStorageType        StorageType,  
    spdGroupContRowStatus           RowStatus  
}

spdGroupContName OBJECT-TYPE

SYNTAX SnmAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name of the group associated with this row. A 'group' is formed by all the rows in this table that have the same value of this object."

::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority (sequence number) of the sub-component in a group that this row represents. This value indicates the order that each row of this table MUST be processed from low to high. For example, a row with a priority of 0 is processed before a row with a priority of 1, a 1 before a 2, etc."

::= { spdGroupContentsEntry 2 }

## spdGroupContFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

### DESCRIPTION

"spdGroupContFilter points to a filter that is evaluated to determine whether the spdGroupContComponentName within this row is exercised. Managers can use this object to classify groups of rules, or subgroups, together in order to achieve a greater degree of control and optimization over the execution order of the items within the group. If the

filter evaluates to false, the rule or subgroup will be skipped and the next rule or subgroup will be evaluated instead. This value can be used to indicate a scalar or row in a table. When indicating a row in a table, this value MUST point to the first column instance in that row.

An example usage of this object would be to limit a group of rules to executing only when the IP packet being processed is designated to be processed by IKE. This effectively creates a group of IKE-specific rules.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB:

- diffServMultiFieldClfrTable
- spdIpOffsetFilterTable
- spdTimeFilterTable
- spdCompoundFilterTable
- spdTrueFilter
- spdIpsHeaderFilterTable

Implementations MAY choose to provide support for other filter tables or scalars.

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, a row in this table is applied to a packet and the value of this column in that row references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

DEFVAL { spdTrueFilterInstance }

::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE

SYNTAX INTEGER { group(1), rule(2) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the spdGroupContComponentName object is the name of another group defined within the spdGroupContentsTable or is the name of a rule defined

within the spdRuleDefinitionTable."

DEFVAL { rule }

::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The name of the policy rule or subgroup contained within this row, as indicated by the spdGroupContComponentType object."

::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdGroupContentsEntry

6 }

spdGroupContStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object MUST NOT be set to active until the row to which the spdGroupContComponentName points to exists and is active.

If active, this object MUST remain active unless one of the

following two conditions are met:

- I. No active row in spdEndpointToGroupTable exists that references this row's group (i.e., indicate this row's spdGroupContName).
- II. Or at least one other active row in this table has a matching spdGroupContName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

::= { spdGroupContentsEntry 8 }

```
--
-- policy definition table
--

spdRuleDefinitionTable OBJECT-TYPE
    SYNTAX SEQUENCE OF SpdRuleDefinitionEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "This table defines a rule by associating a filter
        or a set of filters to an action to be executed."
    ::= { spdConfigObjects 4 }
```

```
spdRuleDefinitionEntry OBJECT-TYPE
    SYNTAX SpdRuleDefinitionEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A row defining a particular rule definition. A rule
        definition binds a filter pointer to an action pointer."
    INDEX { spdRuleDefName }
    ::= { spdRuleDefinitionTable 1 }
```

```
SpdRuleDefinitionEntry ::= SEQUENCE {
    spdRuleDefName          SnmpAdminString,

    spdRuleDefDescription   SnmpAdminString,
    spdRuleDefFilter        VariablePointer,
    spdRuleDefFilterNegated TruthValue,
    spdRuleDefAction        VariablePointer,
    spdRuleDefAdminStatus   SpdAdminStatus,
    spdRuleDefLastChanged   TimeStamp,
    spdRuleDefStorageType   StorageType,
    spdRuleDefRowStatus     RowStatus
}
```

```
spdRuleDefName OBJECT-TYPE
    SYNTAX SnmpAdminString (SIZE(1..32))
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "spdRuleDefName is the administratively assigned name of

        the rule referred to by the spdGroupContComponentName
        object."
```



::= { spdRuleDefinitionEntry 1 }

spdRuleDefDescription OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A user defined string. This field MAY be used for administrative tracking purposes."

DEFVAL { "" }

::= { spdRuleDefinitionEntry 2 }

spdRuleDefFilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdRuleDefFilter points to a filter that is used to evaluate whether the action associated with this row is executed or not. The action will only execute if the filter referenced by this object evaluates to TRUE after first applying any negation required by the spdRuleDefFilterNegated object.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable

are defined in

this MIB. Implementations MAY choose to provide support for other filter tables or scalars as well:

diffServMultiFieldClfrTable

spdIpOffsetFilterTable

spdTimeFilterTable

spdCompoundFilterTable

spdTrueFilter

If this column is set to a VariablePointer value, which references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the

packet MUST be dropped."  
REFERENCE "RFC 3289"  
::= { spdRuleDefinitionEntry 3 }

spdRuleDefFilterNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS

read-create

STATUS current

DESCRIPTION

"spdRuleDefFilterNegated specifies whether or not the results of the filter referenced by the spdRuleDefFilter object is negated."

DEFVAL { false }

::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

spdCompoundActionTable  
ipsaSaPreconfiguredActionTable  
ipiaIkeActionTable  
ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue

error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdRuleDefinitionEntry 5 }

spdRuleDefAdminStatus OBJECT-TYPE

SYNTAX SpdAdminStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether the current rule definition is considered active. If the value is enabled, the rule MUST be evaluated when processing packets. If the value is disabled, the packet processing MUST continue as if this rule's filter had effectively failed."

DEFVAL { enabled }

::= { spdRuleDefinitionEntry 6 }

spdRuleDefLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified

or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdRuleDefinitionEntry 7 }

spdRuleDefStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have

to be writable."

DEFVAL { nonVolatile }

::= { spdRuleDefinitionEntry 8 }

spdRuleDefRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object MUST NOT be set to active until the containing conditions, filters, and actions have been defined. Once active, it MUST remain active until no active policyGroupContents entries are referencing it. A failed attempt to do so MUST return an inconsistentValue error."

::= { spdRuleDefinitionEntry 9 }

--

-- Policy compound filter definition table

--

spdCompoundFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundFilterEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"A table defining compound filters and their associated parameters. A row in this table can be pointed to by a spdRuleDefFilter object."

::= { spdConfigObjects 5 }

spdCompoundFilterEntry OBJECT-TYPE

SYNTAX SpdCompoundFilterEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION

"An entry in the spdCompoundFilterTable. Each entry in this table represents a compound filter. A filter defined by this table is considered to have a TRUE return value if and only if:

spdCompFiltLogicType is AND and all of the sub-filters associated with it, as defined in the spdSubfiltersTable, are all true themselves (after applying any required

negation, as defined by the ficFilterIsNegated object).

spdCompFiltLogicType is OR and at least one of the sub-filters associated with it, as defined in the spdSubfiltersTable, is true itself (after applying any required negation, as defined by the ficFilterIsNegated object."

```
INDEX    { spdCompFiltName }  
 ::= { spdCompoundFilterTable 1 }
```

```
SpdCompoundFilterEntry ::= SEQUENCE {  
    spdCompFiltName          SnmpAdminString,  
    spdCompFiltDescription   SnmpAdminString,  
    spdCompFiltLogicType     SpdBooleanOperator,  
    spdCompFiltLastChanged   TimeStamp,  
    spdCompFiltStorageType   StorageType,  
    spdCompFiltRowStatus     RowStatus  
}
```

```
spdCompFiltName OBJECT-TYPE  
SYNTAX SnmpAdminString (SIZE(1..32))  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
    "A user definable string. This value is used as an index  
    into this table."  
 ::= { spdCompoundFilterEntry 1 }
```

```
spdCompFiltDescription OBJECT-TYPE  
SYNTAX SnmpAdminString  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
    "A user definable string. This field MAY be used for  
    your administrative tracking purposes."  
DEFVAL { "" }  
 ::= { spdCompoundFilterEntry 2 }
```

```
spdCompFiltLogicType OBJECT-TYPE  
SYNTAX SpdBooleanOperator  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION  
    "Indicates whether the sub-component filters of this  
    compound  
filter are functionally ANDed or ORed together."  
DEFVAL { and }
```

::= { spdCompoundFilterEntry 3 }

spdCompFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdCompoundFilterEntry 4 }

spdCompFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdCompoundFilterEntry 5 }

spdCompFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once active, it MUST NOT have its value changed if any active rows in the spdRuleDefinitionTable are currently pointing at this row."

::= { spdCompoundFilterEntry 6 }

--  
-- Policy filters in a cf table  
--

#### spdSubfiltersTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table defines a list of filters contained within a given compound filter defined in the spdCompoundFilterTable."

::= { spdConfigObjects 6 }

#### spdSubfiltersEntry OBJECT-TYPE

SYNTAX SpdSubfiltersEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An entry in the spdSubfiltersTable. There is an entry in this table for each sub-filter of all compound filters present in the spdCompoundFilterTable."

INDEX { spdCompFiltName, spdSubFiltPriority }

::= { spdSubfiltersTable 1 }

SpdSubfiltersEntry ::= SEQUENCE {

spdSubFiltPriority Integer32,

spdSubFiltSubfilter VariablePointer,

spdSubFiltSubfilterIsNegated TruthValue,

spdSubFiltLastChanged TimeStamp,

spdSubFiltStorageType StorageType,

spdSubFiltRowStatus RowStatus

}

#### spdSubFiltPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given filter within a compound filter. The order of execution is from lowest to highest priority value (i.e., priority 0 before priority 1, 1 before 2, etc.). Implementations MAY choose to follow this ordering, as set by the manager that created the rows. This can allow

a manager to intelligently construct filter lists such that faster filters are evaluated first."

::= { spdSubfiltersEntry 1 }

#### spdSubFiltSubfilter OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The OID of the contained filter. The value of this object is a VariablePointer that references the filter to be included in this compound filter.

The following tables and scalars can be pointed to by this column. All but diffServMultiFieldClfrTable are defined in this MIB. Implementations MAY choose to provide support for other filter tables or scalars as well:

- diffServMultiFieldClfrTable
- spdIpsoHeaderFilterTable
- spdIpOffsetFilterTable
- spdTimeFilterTable
- spdCompoundFilterTable
- spdTrueFilter

If this column is set to a VariablePointer value that references a non-existent row in an otherwise supported table, the inconsistentName exception MUST be returned. If the table or scalar pointed to by the VariablePointer is not supported at all, then an inconsistentValue exception MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

REFERENCE "RFC 3289"

::= { spdSubfiltersEntry 2 }

#### spdSubFiltSubfilterIsNegated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates whether or not the result of applying this sub-filter is negated."



```
DEFVAL { false }
::= { spdSubfiltersEntry
3 }
```

#### spdSubFiltLastChanged OBJECT-TYPE

```
SYNTAX    TimeStamp
MAX-ACCESS read-only
STATUS    current
```

#### DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

```
::= { spdSubfiltersEntry 4 }
```

#### spdSubFiltStorageType OBJECT-TYPE

```
SYNTAX    StorageType
MAX-ACCESS read-create
STATUS    current
```

#### DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

```
DEFVAL { nonVolatile }
```

```
::= { spdSubfiltersEntry 5 }
```

#### spdSubFiltRowStatus OBJECT-TYPE

```
SYNTAX
    RowStatus
MAX-ACCESS read-create
STATUS    current
```

#### DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

This object cannot be made active until a filter referenced by the spdSubFiltSubfilter object is both

defined and active. An attempt to do so MUST result in an inconsistentValue error.

If active, this object MUST remain active unless one of the following two conditions are met:

- I. No active row in the SpdCompoundFilterTable exists that has a matching spdCompFiltName.
- II. Or, at least one other active row in this table has a matching spdCompFiltName.

If neither condition is met, an attempt to set this row to something other than active MUST result in an inconsistentValue error."

```
::=  
{ spdSubfiltersEntry 6 }
```

```
--  
-- Static Filters  
--
```

```
spdStaticFilters OBJECT IDENTIFIER ::= { spdConfigObjects 7 }
```

```
spdTrueFilter OBJECT-TYPE
```

```
SYNTAX Integer32 (1)
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"This scalar indicates a (automatic) true result for  
a filter. That is, this is a filter that is always  
true; it is useful for adding as a default filter for a  
default action or a set of actions."
```

```
::= { spdStaticFilters 1 }
```

```
spdTrueFilterInstance OBJECT IDENTIFIER ::= { spdTrueFilter 0 }
```

```
--  
-- Policy IP Offset filter definition table  
--
```

```
spdIpOffsetFilterTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF SpdIpOffsetFilterEntry
```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable.

This type of filter is used to compare an administrator specified octet string to the octets at a particular location in a packet."

::= { spdConfigObjects 8 }

spdIpOffsetFilterEntry OBJECT-TYPE

SYNTAX SpdIpOffsetFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpOffFiltName }

::= { spdIpOffsetFilterTable 1 }

SpdIpOffsetFilterEntry ::= SEQUENCE {

spdIpOffFiltName SnmpAdminString,

spdIpOffFiltOffset Unsigned32,

spdIpOffFiltType INTEGER,

spdIpOffFiltValue OCTET STRING,

spdIpOffFiltLastChanged TimeStamp,

spdIpOffFiltStorageType StorageType,

spdIpOffFiltRowStatus RowStatus

}

spdIpOffFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpOffsetFilterEntry 1 }

spdIpOffFiltOffset OBJECT-TYPE

SYNTAX Unsigned32 (0..65535)

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This is the byte offset from the front of the entire IP packet where the value or arithmetic comparison is done. A value of '0' indicates the first byte of the packet header. If this value is greater than the length of the packet, the filter represented by this row should be considered to fail."

```
::= { spdIpOffsetFilterEntry 2 }
```

spdIpOffFiltType OBJECT-TYPE

```
SYNTAX INTEGER { equal(1),  
                notEqual(2),  
                arithmeticLess(3),  
                arithmeticGreaterOrEqual(4),  
                arithmeticGreater(5),  
                arithmeticLessOrEqual(6) }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This defines the various tests that are used when evaluating a given filter.

The various tests definable in this table are as follows:

equal:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', matches

a value in the packet starting at the given offset in the packet and comparing the entire OCTET STRING of 'spdIpOffFiltValue'. Any values compared this way are assumed to be unsigned integer values in network byte order of the same length as 'spdIpOffFiltValue'.

notEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', does not match a value in the packet starting at the given offset in the packet and comparing to the entire OCTET STRING of 'spdIpOffFiltValue'. Any values compared this way are assumed to be unsigned integer values in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLess:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than ('<') the value starting at

the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreaterOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than or equal to ('>=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreater:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than ('>') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLessOrEqual:

- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than or equal to ('<=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'."

::= { spdIpOffsetFilterEntry 3 }

spdIpOffFiltValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1..1024))

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"spdIpOffFiltValue is used for match comparisons of a packet at spdIpOffFiltOffset."

::= { spdIpOffsetFilterEntry 4 }

spdIpOffFiltLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this

row was last modified  
or created either through SNMP SETs or by some other  
external means.

If this row has not been modified since the last  
re-initialization of the network management subsystem, this  
object SHOULD have a zero value."

::= { spdIpOffsetFilterEntry 5 }

spdIpOfffiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that  
were created through an external process MAY have a  
storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have  
to be writable."

DEFVAL { nonVolatile }

::= { spdIpOffsetFilterEntry 6 }

spdIpOfffiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of  
this object has no effect on whether other  
objects in this conceptual row can be modified.

If active, this object MUST remain active if it is

referenced by an active row in another table. An attempt  
to set it to anything other than active while it is  
referenced by an active row in another table MUST result in  
an inconsistentValue error."

::= { spdIpOffsetFilterEntry 7 }

--

-- Time/scheduling filter table

--

spdTimeFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Defines a table of filters that can be used to effectively enable or disable policies based on a valid time range."

::= { spdConfigObjects 9 }

spdTimeFilterEntry OBJECT-TYPE

SYNTAX SpdTimeFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row describing a given time frame for which a policy is filtered on to activate or deactivate the rule.

If all the column objects in a row are true for the current time, the row evaluates as 'true'. More explicitly, the time matching column objects in a row MUST be logically ANDed together to form the boolean true/false for the row."

INDEX { spdTimeFiltName }

::= { spdTimeFilterTable 1 }

SpdTimeFilterEntry ::= SEQUENCE {

spdTimeFiltName SnmpAdminString,  
spdTimeFiltPeriod SpdTimePeriod,  
spdTimeFiltMonthOfYearMask BITS,  
spdTimeFiltDayOfMonthMask OCTET STRING,  
spdTimeFiltDayOfWeekMask BITS,  
spdTimeFiltTimeOfDayMask SpdTimePeriod,  
spdTimeFiltLastChanged TimeStamp,  
spdTimeFiltStorageType StorageType,  
spdTimeFiltRowStatus RowStatus

}

spdTimeFiltName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"An administratively assigned name for this filter."

::= { spdTimeFilterEntry 1 }

#### spdTimeFiltPeriod OBJECT-TYPE

SYNTAX SpdTimePeriod

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"The valid time period for this filter. This column is considered 'true' if the current time is within the range of this object."

DEFVAL { "THISANDPRIOR/THISANDFUTURE" }

::= { spdTimeFilterEntry 2 }

#### spdTimeFiltMonthOfYearMask OBJECT-TYPE

SYNTAX BITS { january(0), february(1), march(2),  
april(3), may(4), june(5), july(6),  
august(7), september(8), october(9),  
november(10), december(11) }

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"A bit mask that indicates acceptable months of the year. This column evaluates to 'true' if the current month's bit is set."

DEFVAL { { january, february, march,  
april, may, june, july,  
august, september, october, november, december } }

::= { spdTimeFilterEntry 3 }

#### spdTimeFiltDayOfMonthMask OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(8))

MAX-ACCESS read-create

STATUS current

#### DESCRIPTION

"Defines which days of the month the current time is valid for. It is a sequence of 64 BITS, where each BIT represents a corresponding day of the month in forward or reverse order. Starting from the left-most bit, the first 31 bits identify the day of the month, counting from the beginning of the month. The following 31 bits (bits 32-62) indicate the day of the month, counting from the end of the

month. For months with fewer than 31 days, the bits that correspond to the non-existent days of that month are



ignored (e.g., for non-leap year Februarys, bits 29-31 and 60-62 are ignored).

This column evaluates to 'true' if the current day of the month's bit is set.

For example, a value of 0X'80 00 00 01 00 00 00 00' indicates that this column evaluates to true on the first and last days of the month.

The last two bits in the string MUST be zero."

```
DEFVAL { 'ffffffffffffe'H }  
::= { spdTimeFilterEntry 4 }
```

spdTimeFiltDayOfWeekMask OBJECT-TYPE

```
SYNTAX BITS { sunday(0), monday(1), tuesday(2),  
wednesday(3), thursday(4), friday(5),  
saturday(6) }
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"A bit mask that defines which days of the week that the current time is valid for. This column evaluates to 'true' if the current day of the week's bit is set."

```
DEFVAL { { monday, tuesday, wednesday, thursday, friday,  
saturday, sunday } }  
::= { spdTimeFilterEntry 5 }
```

spdTimeFiltTimeOfDayMask OBJECT-TYPE

```
SYNTAX SpdTimePeriod
```

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Indicates the start and end time of the day for which this filter evaluates to true. The date portions of the spdTimePeriod TC are ignored for purposes of evaluating this mask, and only the time-specific portions are used.

This column evaluates to 'true' if the current time of day is within the range of the start and end times of the day indicated by this object."

```
DEFVAL { "00000000T000000/00000000T240000" }  
::= { spdTimeFilterEntry 6 }
```

spdTimeFiltLastChanged OBJECT-TYPE

```
SYNTAX TimeStamp
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this

object SHOULD have a zero value."

::= { spdTimeFilterEntry 7 }

spdTimeFiltStorageType OBJECT-TYPE

SYNTAX StorageType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdTimeFilterEntry 8 }

spdTimeFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active if it is referenced by an active row in another table. An attempt to set

it to anything other than active while it is

referenced by an active row in another table MUST result in an inconsistentValue error."

::= { spdTimeFilterEntry 9 }

--  
-- IPSO protection authority filtering  
--

spdIpsHeaderFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdIpsHeaderFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of IPSO header filter definitions to be used within the spdRuleDefinitionTable or the spdSubfiltersTable. IPSO headers and their values are described in RFC 1108."

REFERENCE "RFC 1108"

::= { spdConfigObjects 10 }

spdIpsHeaderFilterEntry OBJECT-TYPE

SYNTAX SpdIpsHeaderFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpsHeaderFiltName }

::= { spdIpsHeaderFilterTable 1 }

SpdIpsHeaderFilterEntry ::= SEQUENCE

```
{
  spdIpsHeaderFiltName      SmpAdminString,
  spdIpsHeaderFiltType      BITS,
  spdIpsHeaderFiltClassification  INTEGER,
  spdIpsHeaderFiltProtectionAuth  INTEGER,
  spdIpsHeaderFiltLastChanged  TimeStamp,
  spdIpsHeaderFiltStorageType  StorageType,
  spdIpsHeaderFiltRowStatus    RowStatus
}
```

spdIpsHeaderFiltName OBJECT-TYPE

SYNTAX SmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpsHeaderFilterEntry 1 }

spdIpsHeaderFiltType OBJECT-TYPE

SYNTAX BITS { classificationLevel(0),  
protectionAuthority(1) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates which of the IPSO header field a packet is filtered on for this row. If this object is set to classification(0), the spdIpsHeaderFilterClassification

object indicates how the packet is filtered. If this object is set to protectionAuthority(1), the spdIpsHeaderFilterProtectionAuth object indicates how the packet is filtered."

::= { spdIpsHeaderFilterEntry 2 }

spdIpsHeaderFilterClassification OBJECT-TYPE

SYNTAX INTEGER { topSecret(61), secret(90),  
confidential(150), unclassified(171) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO classification header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108."

REFERENCE "RFC 1108"

::= { spdIpsHeaderFilterEntry 3 }

spdIpsHeaderFilterProtectionAuth OBJECT-TYPE

SYNTAX INTEGER { genser(0), siopesi(1), sci(2),  
nsa(3), doe(4) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates the IPSO protection authority header field value that the packet MUST have for this row to evaluate to 'true'.

The values of these enumerations are defined by RFC 1108.

Hence the reason the SMIV2 convention of not using 0 in enumerated lists is violated here."

REFERENCE "RFC 1108"

::= { spdIpsHeaderFilterEntry 4 }

spdIpsHeaderFilterLastChanged OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdIpsHeaderFilterEntry 5 }

spdIpsHeadFiltStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS  
current

DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdIpsHeaderFilterEntry 6 }

spdIpsHeadFiltRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current

DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

However, this object MUST NOT be set to active if the requirements of the spdIpsHeadFiltType object are not met. Specifically, if the spdIpsHeadFiltType bit for classification(0) is set, the spdIpsHeadFiltClassification column MUST have a valid value for the row

status to be set

to active. If the spdIpsHeadFiltType bit for

protectionAuthority(1) is set, the  
spdIpssoHeadFiltProtectionAuth column MUST have a valid  
value for the row status to be set to active.

If active, this object MUST remain active if it is  
referenced by an active row in another table. An attempt  
to set it to anything other than active while it is  
referenced by an active row in another table MUST result in  
an inconsistentValue error."

::= { spdIpssoHeaderFilterEntry 7 }

--

-- compound actions table

--

spdCompoundActionTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Table used to allow multiple actions to be associated  
with a rule. It uses the spdSubactionsTable to do this.

The rows from spdSubactionsTable that are partially indexed  
by spdCompActName form the

set of compound actions to be

performed. The spdCompActExecutionStrategy column in this  
table indicates how those actions are processed."

::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE

SYNTAX SpdCompoundActionEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the spdCompoundActionTable."

INDEX { spdCompActName }

::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {

spdCompActName SnmpAdminString,

spdCompActExecutionStrategy INTEGER,

spdCompActLastChanged TimeStamp,

spdCompActStorageType StorageType,

spdCompActRowStatus RowStatus

}

spdCompActName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This is an administratively assigned name of this compound action."

::= { spdCompoundActionEntry  
1 }

spdCompActExecutionStrategy OBJECT-TYPE

SYNTAX INTEGER { doAll(1),  
doUntilSuccess(2),  
doUntilFailure(3) }

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object indicates how the sub-actions are executed based on the success of the actions as they finish executing.

doAll - run each sub-action regardless of the exit status of the previous action. This parent action is always considered to have acted successfully.

doUntilSuccess - run each sub-action until one succeeds, at which point stop processing the sub-actions within this parent compound action. If one of the sub-actions did execute successfully, this parent action is also considered to have executed successfully.

doUntilFailure - run each sub-action until one fails, at which point stop processing the sub-actions within this compound action. If any sub-action fails, the result of this parent action is considered to have failed."

DEFVAL { doUntilSuccess }

::= { spdCompoundActionEntry 2 }

spdCompActLastChanged OBJECT-TYPE

SYNTAX TimeStamp  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external means.

If this row has not been modified since the last re-initialization of the network management subsystem, this object SHOULD have a zero value."

::= { spdCompoundActionEntry  
3 }

spdCompActStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }

::= { spdCompoundActionEntry 4 }

spdCompActRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

Once a row in the spdCompoundActionTable has been made active, this object MUST NOT be set to destroy without first destroying all the contained rows listed in the spdSubactionsTable."

::= { spdCompoundActionEntry 5 }



--  
-- actions contained within a compound action  
--

spdSubactionsTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This table contains a list of the sub-actions within a given compound action. Compound actions executing these actions MUST execute them in series based on the spdSubActPriority value, with the lowest value executing first."

::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE

SYNTAX SpdSubactionsEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row containing a reference to a given compound-action sub-action."

INDEX { spdCompActName, spdSubActPriority }

::= { spdSubactionsTable 1 }

SpdSubactionsEntry ::= SEQUENCE {

spdSubActPriority Integer32,

spdSubActSubActionName

VariablePointer,

spdSubActLastChanged TimeStamp,

spdSubActStorageType StorageType,

spdSubActRowStatus RowStatus

}

spdSubActPriority OBJECT-TYPE

SYNTAX Integer32 (0..65535)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The priority of a given sub-action within a compound action. The order in which sub-actions MUST be executed are based on the value from this column, with the lowest numeric value executing first (i.e., priority 0 before priority 1, 1 before 2, etc.)."

::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This column points to the action to be taken. It MAY, but is not limited to, point to a row in one of the following tables:

    spdCompoundActionTable

- Allowing recursion

    ipsaSaPreconfiguredActionTable

    ipiaIkeActionTable

    ipiaIpsecActionTable

It MAY also point to one of the scalar objects beneath spdStaticActions.

If this object is set to a pointer to a row in an unsupported (or unknown) table, an inconsistentValue error MUST be returned.

If this object is set to point to a non-existent row in an otherwise supported table, an inconsistentName error MUST be returned.

If, during packet processing, this column has a value that references a non-existent or non-supported object, the packet MUST be dropped."

::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE

SYNTAX TimeStamp

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The value of sysUpTime when this row was last modified or created either through SNMP SETs or by some other external

means.

If this row has not been modified since the last re-initialization of the network management subsystem, this

object SHOULD have a zero value."  
::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE

SYNTAX StorageType  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The storage type for this row. Rows in this table that were created through an external process MAY have a storage type of readOnly or permanent.

For a storage type of permanent, none of the columns have to be writable."

DEFVAL { nonVolatile }  
::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other objects in this conceptual row can be modified.

If active, this object MUST remain active unless one of the following two conditions are met. An attempt to set it to anything other than active while the following conditions are not met MUST result in an inconsistentValue error. The two conditions are:

- I. No active row in the spdCompoundActionTable exists which has a matching spdCompActName.
- II. Or, at least one other active row in this table has a matching spdCompActName."

::= { spdSubactionsEntry 5 }

--  
-- Static Actions  
--

-- these are static actions that can be pointed to by the  
-- spdRuleDefAction or the spdSubActSubActionName objects to  
-- drop, accept, or reject packets.

spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }

spdDropAction OBJECT-TYPE

SYNTAX Integer32 (1)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This scalar indicates that a packet MUST be dropped  
and SHOULD

NOT have action/packet logging."

::= { spdStaticActions 1 }

spdDropActionLog OBJECT-TYPE

SYNTAX Integer32 (1)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This scalar indicates that a packet MUST be dropped  
and SHOULD have action/packet logging."

::= { spdStaticActions 2 }

spdAcceptAction OBJECT-TYPE

SYNTAX Integer32 (1)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This Scalar indicates that a packet MUST be accepted  
(pass-through) and SHOULD NOT have action/packet logging."

::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE

SYNTAX Integer32 (1)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This scalar indicates that a packet MUST be accepted  
(pass-through) and SHOULD have action/packet logging."

::= { spdStaticActions 4 }

--

--

-- Notification objects information

--

--

spdNotificationVariables OBJECT IDENTIFIER

::=

{ spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=

{ spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE

SYNTAX VariablePointer

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Points to the action instance that was executed that resulted in the notification being sent."

::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the address type for the interface that the notification triggering packet is passing through."

::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the interface address for the interface that the notification triggering packet is passing through."

The format of this object is specified by the spdIPEndpointAddType object."

::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address type of the packet that

triggered the notification."

::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the source address of the packet that triggered the notification.

The format of this object is specified by the spdIPSourceType object."

::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address type of the packet that triggered the notification."

::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Contains the destination address of the packet that triggered the notification.

The format of this object is specified by the spdIPDestinationType object."

::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE

SYNTAX IfDirection

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"Indicates if the packet that triggered the action in questions was ingress (inbound) or egress (outbound)."

::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (0..65535))

MAX-ACCESS accessible-for-notify

STATUS current

DESCRIPTION

"spdPacketPart is the front part of the full IP packet that triggered this notification. The initial size limit is

determined by the smaller of the size, indicated by:

- I. The value of the object with the TC syntax 'SpdIPPacketLogging' that indicated the packet SHOULD be logged and
- II. The size of the triggering packet.

The final limit is determined by the SNMP packet size when sending the notification. The maximum size that can be included will be the smaller of the initial size, given the above, and the length that will fit in a single SNMP notification packet after the rest of the notification's objects and any other necessary packet data (headers encoding, etc.) have been included in the packet."

::= { spdNotificationVariables 9 }

spdActionNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection }

STATUS current

DESCRIPTION

"Notification that an action was executed by a rule.

Only actions with logging enabled will result in this notification getting sent. The object includes the spdActionExecuted object, which will indicate which action was executed within the scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects are included to indicate the packet source and destination of the packet that triggered the action. Finally, the spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects indicate which interface the

executed action was associated with, and if the packet was ingress or egress through the endpoint.

A spdActionNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration controlling their send rate.

Note that compound actions with multiple executed sub-actions may result in multiple notifications being sent from a single rule execution."

::= { spdNotifications 1 }

spdPacketNotification NOTIFICATION-TYPE

OBJECTS { spdActionExecuted, spdIPEndpointAddType, spdIPEndpointAddress, spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, spdIPDestinationAddress, spdPacketDirection, spdPacketPart }

STATUS current

DESCRIPTION

"Notification that a packet passed through a Security Association (SA). Only SAs created by actions with packet logging enabled will result in this notification getting sent. The objects sent MUST include the spdActionExecuted, which will indicate which action was executed

within the

scope of the rule. Additionally, the spdIPSourceType, spdIPSourceAddress, spdIPDestinationType, and spdIPDestinationAddress objects MUST be included to indicate the packet source and destination of the packet that triggered the action. The spdIPEndpointAddType, spdIPEndpointAddress, and spdPacketDirection objects are included to indicate which endpoint the packet was associated with. Finally, spdPacketPart is included to enable sending a variable sized part of the front of the packet with the size dependent on the value of the object of TC syntax 'SpdIPPacketLogging', which indicated that logging should be done.

A spdPacketNotification SHOULD be limited to a maximum of one notification sent per minute for any action notifications that do not have any other configuration



controlling their send rate.

An action notification  
SHOULD be limited to a maximum of  
one notification sent per minute for any action  
notifications that do not have any other configuration  
controlling their send rate."  
::= { spdNotifications 2 }

--  
--

-- Conformance information

--  
--

spdCompliances OBJECT IDENTIFIER  
::= { spdConformanceObjects 1 }  
spdGroups OBJECT IDENTIFIER  
::= { spdConformanceObjects 2 }

--  
--

-- Compliance statements

--  
--

spdRuleFilterFullCompliance MODULE-COMPLIANCE  
STATUS current  
DESCRIPTION

"The compliance statement for SNMP entities that include  
an IPsec MIB implementation with Endpoint, Rules, and  
filters support.

When this MIB is implemented with support for read-create,  
then such an implementation can claim full compliance. Such  
devices can then be both monitored and configured with this  
MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,

spdGroupContentsGroup,  
    spdRuleDefinitionGroup,  
    spdStaticFilterGroup,  
    spdStaticActionGroup ,  
    diffServMIBMultiFieldClfrGroup }

GROUP spdIpssecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec

Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpssoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdEndGroupLastChanged

MIN-ACCESS not-accessible

DESCRIPTION

"This object not required for compliance."

OBJECT spdGroupContComponentType

SYNTAX INTEGER {  
rule(2)

}

DESCRIPTION

"Support of the value group(1) is only required for

implementations that support Policy Groups within  
Policy Groups."

OBJECT spdGroupContLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdRuleDefLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdCompFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdSubFiltLastChanged  
MIN-ACCESS not-accessible

DESCRIPTION  
"This object not required for compliance."

OBJECT spdIpOffFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdTimeFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdIpsoHeadFiltLastChanged  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdCompActLastChanged  
MIN-ACCESS  
not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT spdSubActLastChanged

MIN-ACCESS not-accessible  
DESCRIPTION  
"This object not required for compliance."

OBJECT diffServMultiFieldClfrNextFree  
MIN-ACCESS not-accessible  
DESCRIPTION  
"This object is not required for compliance."

::= { spdCompliances 1 }

spdLoggingCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that support  
sending notifications when actions are invoked."

MODULE -- This Module

MANDATORY-GROUPS { spdActionLoggingObjectGroup,  
spdActionNotificationGroup }

::= { spdCompliances 2 }

--

-- ReadOnly Compliances

--

spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities that include  
an IPsec MIB implementation with Endpoint, Rules, and  
filters support.

If this MIB is implemented without support for read-create  
(i.e., in read-only), it is not in full compliance, but it  
can claim read-only compliance. Such a device can then be  
monitored, but cannot be configured with this MIB."

MODULE -- This Module

MANDATORY-GROUPS { spdEndpointGroup,  
spdGroupContentsGroup,  
spdRuleDefinitionGroup,  
spdStaticFilterGroup,  
spdStaticActionGroup ,  
diffServMIBMultiFieldClfrGroup }

GROUP spdIpssecSystemPolicyNameGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support a system policy group name."

GROUP spdCompoundFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound filters."

GROUP spdIPOffsetFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support IP Offset filters. In general, this SHOULD be supported by a compliant IPsec Policy implementation."

GROUP spdTimeFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support time filters."

GROUP spdIpssoHeaderFilterGroup

DESCRIPTION

"This group is mandatory for IPsec Policy

implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup

DESCRIPTION

"This group is mandatory for IPsec Policy implementations that support compound actions."

OBJECT spdCompActExecutionStrategy

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdCompActLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdCompActRowStatus

MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdCompActStorageType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdCompFiltDescription  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdCompFiltLastChanged  
DESCRIPTION  
"This object is not required for compliance."

OBJECT spdCompFiltLogicType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdCompFiltRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdCompFiltStorageType

MIN-ACCESS read-only  
DESCRIPTION

"Write access is not required."

OBJECT spdEgressPolicyGroupName  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdEndGroupLastChanged  
DESCRIPTION  
"This object is not required for compliance."

OBJECT spdEndGroupName  
MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdEndGroupStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContComponentType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContFilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdGroupContRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdGroupContStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIngressPolicyGroupName

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpOffFiltOffset

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpOffFiltValue

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsHeadFiltClassification

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsHeadFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpsHeadFiltProtectionAuth

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."



OBJECT spdIpsHeadFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsHeadFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdIpsHeadFiltType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefAction

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefAdminStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefDescription

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefFilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefFilterNegated

MIN-ACCESS

read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdRuleDefRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdSubActRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubActSubActionName

MIN-ACCESS read-only

DESCRIPTION

"Write access  
is not required."

OBJECT spdSubFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdSubFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltSubfilter

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltSubfilterIsNegated

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltDayOfMonthMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltDayOfWeekMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT

spdTimeFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdTimeFiltMonthOfYearMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltPeriod

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltRowStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltTimeOfDayMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT spdTimeFiltStorageType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

```

::= { spdCompliances 3 }

--
--
-- Compliance Groups Definitions
--
--
--
-- Endpoint, Rule, Filter Compliance Groups
--

spdEndpointGroup OBJECT-GROUP
  OBJECTS {
    spdEndGroupName,
    spdEndGroupLastChanged,
    spdEndGroupStorageType, spdEndGroupRowStatus
  }
  STATUS current
  DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Endpoint Table."
  ::= { spdGroups 1 }

spdGroupContentsGroup OBJECT-GROUP
  OBJECTS {
    spdGroupContComponentType, spdGroupContFilter,
    spdGroupContComponentName, spdGroupContLastChanged,
    spdGroupContStorageType, spdGroupContRowStatus
  }
  STATUS current
  DESCRIPTION
    "This group is made up of objects from the IPsec Policy
    Group Contents Table."
  ::= { spdGroups 2 }

spdIpsecSystemPolicyNameGroup OBJECT-GROUP
  OBJECTS {
    spdIngressPolicyGroupName,
    spdEgressPolicyGroupName
  }
  STATUS current
  DESCRIPTION
    "This group is made up of objects represent the System
    Policy Group Names."
  ::= { spdGroups 3 }

```

spdRuleDefinitionGroup OBJECT-GROUP

OBJECTS {

spdRuleDefDescription, spdRuleDefFilter,  
spdRuleDefFilterNegated, spdRuleDefAction,  
spdRuleDefAdminStatus, spdRuleDefLastChanged,

spdRuleDefStorageType, spdRuleDefRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy Rule  
Definition Table."

::= { spdGroups 4 }

spdCompoundFilterGroup OBJECT-GROUP

OBJECTS {

spdCompFiltDescription, spdCompFiltLogicType,  
spdCompFiltLastChanged, spdCompFiltStorageType,  
spdCompFiltRowStatus, spdSubFiltSubfilter,  
spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,  
spdSubFiltStorageType, spdSubFiltRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy  
Compound Filter Table and Sub-Filter Table Group."

::= { spdGroups 5 }

spdStaticFilterGroup OBJECT-GROUP

OBJECTS { spdTrueFilter }

STATUS current

DESCRIPTION

"The static filter group. Currently this is just  
a true

filter."

::= { spdGroups 6 }

spdIPOffsetFilterGroup OBJECT-GROUP

OBJECTS {

spdIpOffFiltOffset, spdIpOffFiltType,  
spdIpOffFiltValue, spdIpOffFiltLastChanged,  
spdIpOffFiltStorageType, spdIpOffFiltRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy IP  
Offset Filter Table."

::= { spdGroups 7 }

spdTimeFilterGroup OBJECT-GROUP

OBJECTS {

spdTimeFiltPeriod,  
spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,  
spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,

spdTimeFiltLastChanged,  
spdTimeFiltStorageType, spdTimeFiltRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy Time  
Filter Table."

::= { spdGroups 8 }

spdIpsHeaderFilterGroup OBJECT-GROUP

OBJECTS {

spdIpsHeaderFiltType, spdIpsHeaderFiltClassification,  
spdIpsHeaderFiltProtectionAuth,

spdIpsHeaderFiltLastChanged,  
spdIpsHeaderFiltStorageType, spdIpsHeaderFiltRowStatus

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy IPSO  
Header Filter Table."

::= { spdGroups 9 }

--

-- action compliance groups

--

spdStaticActionGroup OBJECT-GROUP

OBJECTS {

spdDropAction, spdAcceptAction,  
spdDropActionLog, spdAcceptActionLog

}

STATUS current

DESCRIPTION

"This group is made up of objects from the IPsec Policy  
Static Actions."

::= { spdGroups 10 }

spdCompoundActionGroup OBJECT-GROUP

OBJECTS {

spdCompActExecutionStrategy, spdCompActLastChanged,  
spdCompActStorageType,

spdCompActRowStatus, spdSubActSubActionName,  
spdSubActLastChanged, spdSubActStorageType,  
spdSubActRowStatus

}

STATUS current

DESCRIPTION

"The IPsec Policy Compound Action Table and Actions In

Compound Action Table

Group."

::= { spdGroups 11 }

spdActionLoggingObjectGroup OBJECT-GROUP

OBJECTS {

spdActionExecuted,  
spdIPEndpointAddType, spdIPEndpointAddress,  
spdIPSourceType, spdIPSourceAddress,  
spdIPDestinationType, spdIPDestinationAddress,  
spdPacketDirection, spdPacketPart

}

STATUS current

DESCRIPTION

"This group is made up of all the Notification objects for  
this MIB."

::= { spdGroups 12 }

spdActionNotificationGroup NOTIFICATION-GROUP

NOTIFICATIONS {

spdActionNotification,  
spdPacketNotification

}

STATUS current

DESCRIPTION

"This group is made up of all the Notifications for this MIB."

::= { spdGroups 13 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-MIB

# 1.462 springsource-javax-jms 1.1.0

## 1.462.1 Available under license :

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\* @(#)QueueRequestor.java 1.21 02/04/09

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\* @(#)InvalidClientIDException.java 1.8 02/04/09

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\* @(#)ExceptionListener.java 1.8 02/04/09

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\* @(#)MessageNotReadableException.java 1.7 02/04/09  
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\* @(#)MessageNotWriteableException.java 1.7 02/04/09  
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\* @(#)TransactionInProgressException.java 1.8 02/04/09  
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\* @(#)BytesMessage.java 1.31 02/04/09  
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\* @(#)TopicConnection.java 1.19 02/04/09  
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\* @(#)MessageConsumer.java 1.19 02/04/09  
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\* @(#)XATopicConnectionFactory.java 1.14 02/04/09  
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\* @(#)Connection.java 1.22 02/04/09  
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\* @(#)QueueBrowser.java 1.20 02/04/09  
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\* @(#)ObjectMessage.java 1.19 02/04/09  
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\* @(#)ConnectionConsumer.java 1.16 02/04/09  
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\* @(#)XAConnectionFactory.java 1.10 02/04/09  
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\* @(#)JMSSecurityException.java 1.8 02/04/09  
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\* @(#)XAQueueConnectionFactory.java 1.14 02/04/09  
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\* @(#)XAQueueSession.java 1.11 02/04/09  
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\* @(#)IllegalStateException.java 1.7 02/04/09  
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\* @(#)Message.java 1.60 02/04/09

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\* @(#)QueueConnectionFactory.java 1.14 02/04/23

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\* @(#)XASession.java 1.18 02/04/09

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\* @(#)TransactionRolledBackException.java 1.7 02/04/09

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\* @(#)InvalidDestinationException.java 1.8 02/04/09

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\* @(#)TopicConnectionFactory.java 1.15 02/04/09

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/opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/BasePermission.java

\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationProvider.java

\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/AclCache.java

\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-

jar/org/springframework/security/acls/model/AuditableAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/MutableAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ObjectIdentityRetrievalStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AuditableAccessControlEntry.java  
\*  
/opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/AbstractAclProvider.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/CumulativePermission.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/EhCacheBasedAclCache.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/OwnershipAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/IdentityUnavailableException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/Permission.java  
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jar/org/springframework/security/acls/model/AclService.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ObjectIdentityImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AlreadyExistsException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/GrantedAuthoritySid.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/MutableAclService.java  
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jar/org/springframework/security/acls/afterinvocation/Filterer.java  
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/opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/jdbc/LookupStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AccessControlEntry.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AclAuthorizationStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/Sid.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/SidRetrievalStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ConsoleAuditLogger.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationCollectionFilteringProvider.java

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/opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AclAuthorizationStrategy.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AclImpl.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/CollectionFilterer.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/ObjectIdentity.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/jdbc/BasicLookupStrategy.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/jdbc/JdbcMutableAclService.java
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/opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/AclEntryVoter.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/afterinvocation/ArrayFilterer.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/NotFoundException.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/UnloadedSidException.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AclFormattingUtils.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/ObjectIdentityRetrievalStrategy.java
*
/opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/SidRetrievalStrategy.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/model/ChildrenExistException.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AccessControlEntryImpl.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/jdbc/JdbcAclService.java
* /opt/cola/permits/1114224794_1607455091.57/0/spring-security-acl-3-2-4-release-sources-
jar/org/springframework/security/acls/domain/AuditLogger.java

```

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- /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
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```
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zip/org/hibernate/validator/engine/ConstraintTree.java

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\* \$Id: NotBlankValidator.java 19090 2010-03-23 15:22:59Z hardy.ferentschik \$

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zip/org/hibernate/validator/constraints/impl/MaxValidatorForNumber.java

\*

/opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/ConfigurationImpl.java

\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/ScriptAssert.java

\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/annotationfactory/AnnotationProxy.java

\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/annotationfactory/AnnotationDescriptor.java

\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/ScriptAssertValidator.java

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zip/org/hibernate/validator/constraints/impl/scriptassert/ScriptEvaluator.java  
\*  
/opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/resourceloading/AggregateResourceBundleLocator.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/resourceloading/CachingResourceBundleLocator.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/scriptassert/ScriptEvaluatorFactory.java

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zip/org/hibernate/validator/util/IteratorEnumeration.java

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 * $Id: NotBlank.java 19327 2010-04-30 08:11:15Z hardy.ferentschik $
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zip/org/hibernate/validator/metadata/MetaConstraint.java
```

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*
```



```
/opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/impl/PatternValidator.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/engine/ValidationContext.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/util/Version.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/metadata/BeanMetaDataImpl.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/util/LoggerFactory.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/util/ReflectionHelper.java
*
/opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/DelegatingResourceBundleLocator.java
* /opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/ResourceBundleLocator.java
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zip/org/hibernate/validator/engine/ValidatorImpl.java
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24 10:31:09Z hardy.ferentschik \$

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/opt/cola/permits/1114224921_1611281833.65/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/engine/resolver/package.html
```

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zip/org/hibernate/validator/engine/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/groups/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/annotationfactory/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/privilegedactions/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/scriptassert/package.html  
\*  
/opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/package.html  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/messageinterpolation/package.html  
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zip/org/hibernate/validator/metadata/package.html  
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jar/javax/validation/ParameterNameProvider.java  
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/opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Payload.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidator.java  
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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Null.java  
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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertFalse.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Constraint.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDefinitionException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-

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jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Digits.java
*
/opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ConstraintDeclarationException.java
*
/opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ValidationException.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/Validation.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/TraversableResolver.java
*
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jar/javax/validation/constraints/Size.java
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/opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMax.java

\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/package-info.java

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/opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ConfigurationState.java

\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorFactory.java

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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/MessageChannel.java

\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/stomp/BufferingStompDecoder.java

\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/stomp/Reactor2StompCodec.java

\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/user/SimpUserRegistry.java

\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/user/UserSessionRegistryAdapter.java

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*
/opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/converter/GenericMessageConverter.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/StompCommand.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/annotation/support/DestinationVariableMethodArgumentResolver.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/annotation/support/MessageMethodArgumentResolver.java
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/opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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jar/org/springframework/messaging/handler/annotation/SendTo.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/annotation/SendToUser.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/config/AbstractBrokerRegistration.java
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jar/org/springframework/messaging/simp/config/ChannelRegistration.java
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/PollableChannel.java  
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/opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageRequestReplyOperations.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/broker/BrokerAvailabilityEvent.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/BeanFactoryMessageChannelDestinationResolver.java  
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/opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageSendingOperations.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/annotation/support/PrincipalMethodArgumentResolver.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/annotation/support/MissingSessionUserException.java  
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/opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/support/ChannelInterceptorAdapter.java  
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jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolverComposite.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/user/MultiServerUserRegistry.java
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/opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/StompSession.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/config/AbstractMessageBrokerConfiguration.java
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/MessageHandler.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/user/DefaultUserDestinationResolver.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/invocation/InvocableHandlerMethod.java
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jar/org/springframework/messaging/handler/invocation/CompletableFutureReturnValueHandler.java
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jar/org/springframework/messaging/support/ExecutorSubscribableChannel.java
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jar/org/springframework/messaging/simp/SimpMessagingTemplate.java
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- \* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/MessageHeaders.java
- \* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/handler/invocation/AbstractAsyncReturnValueHandler.java
- \* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/SimpMessageSendingOperations.java
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- /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/converter/StringMessageConverter.java

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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/tcp/TcpConnection.java
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/MessagingAdviceBean.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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jar/org/springframework/messaging/converter/MessageConverter.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
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jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/core/MessageSendingOperations.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/user/SimpSubscription.java
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/handler/invocation/HandlerMethodReturnValueHandlerComposite.java  
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/opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/converter/DefaultContentTypeResolver.java  
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/opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/AbstractMessageReceivingTemplate.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/handler/annotation/support/HeaderMethodArgumentResolver.java  
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\* /opt/cola/permits/1120268575\_1609904332.77/0/spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/converter/MarshallingMessageConverter.java  
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a
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/config/StompBrokerRelayRegistration.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
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* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/converter/MappingJackson2MessageConverter.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/support/AbstractMessageChannel.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/StompEncoder.java
*
/opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/support/NativeMessageHeaderAccessor.java
* /opt/cola/permits/1120268575_1609904332.77/0/spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/simp/stomp/DefaultStompSession.java
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*/
/**
* Set the max pool size of the ThreadPoolExecutor.
* <p><strong>NOTE:</strong> When an unbounded
* { @link #queueCapacity(int) queueCapacity } is configured (the default), the
* max pool size is effectively ignored. See the "Unbounded queues" strategy
* in { @link java.util.concurrent.ThreadPoolExecutor
ThreadPoolExecutor } for
* more details.
* <p>By default this is set to { @code Integer.MAX_VALUE }.
*/
```

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```
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## 1.477 springsource-javax-validation 1.0.0.GA

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* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/Constraint.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/ValidationException.java
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```

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```
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/GroupSequence.java
```

## 1.478 js-base64 2.6.4

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Found in path(s):

- \* /opt/cola/permits/1127121050\_1611787553.43/0/errno-0-1-8-3-tgz/package/README.md

# 1.480 fs-extra 7.0.1

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\* /opt/cola/permits/1135891472\_1613626397.91/0/xpp3-min-1-1-4c-sources-1-  
jar/org/xmlpull/mxp1/MXParser.java

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```
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jar/com/esotericsoftware/kryo/util/IntMap.java  
* /opt/cola/permits/1138102365_1614220758.26/0/kryo-2-17-sources-1-  
jar/com/esotericsoftware/kryo/util/IdentityMap.java
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jar/org/intellij/lang/annotations/Subst.java  
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jar/org/intellij/lang/annotations/Pattern.java  
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jar/org/intellij/lang/annotations/Language.java  
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jar/org/intellij/lang/annotations/PrintFormat.java  
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jar/org/intellij/lang/annotations/MagicConstant.java  
\* /opt/cola/permits/1138123144\_1614251056.08/0/annotations-13-0-sources-3-  
jar/org/intellij/lang/annotations/JdkConstants.java  
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## 1.539 error\_prone\_annotations 2.1.3

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Found in path(s):

```
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/Log4jLoggerFactory.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/spi/ErrorHandler.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/spi/OptionHandler.java  
*  
/opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/LogManager.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/PatternLayout.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/MDC.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/spi/LoggerFactory.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/Priority.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/spi/LoggerRepository.java  
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-  
jar/org/apache/log4j/Logger.java
```

```
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/AppenderSkeleton.java
*
/opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/spi/Configurator.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/spi/Filter.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/SimpleLayout.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/PropertyConfigurator.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/WriterAppender.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/Level.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/Category.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/helpers/LogLog.java
*
/opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/FileAppender.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/Appender.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-jar/org/apache/log4j/NDC.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/ConsoleAppender.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/Layout.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/BasicConfigurator.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/RollingFileAppender.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/xml/DOMConfigurator.java
*
/opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/spi/HierarchyEventListener.java
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Found in path(s):

```
* /opt/cola/permits/1147791542_1617098519.69/0/log4j-over-slf4j-1-7-21-sources-2-
jar/org/apache/log4j/helpers/NullEnumeration.java
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```
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jar/org/springframework/binding/expression/support/SimpleParserContext.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/spel/SpringELExpression.java
*
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/impl/DefaultMappingResults.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/spel/SpringELExpressionParser.java
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jar/org/springframework/binding/format/IntegerNumberFormatFactory.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/MappingResultsCriteria.java
*
/opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpressionParser.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/DefaultNumberFormatFactory.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/format/AbstractNumberFormatFactory.java
*
/opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/message/DefaultMessageResolver.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/el/DefaultELContext.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/results/SourceAccessError.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
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jar/org/springframework/binding/mapping/results/TypeConversionError.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-  
jar/org/springframework/binding/message/MessageContext.java  
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jar/org/springframework/binding/mapping/results/TargetAccessError.java  
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jar/org/springframework/binding/message/Severity.java  
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jar/org/springframework/binding/mapping/results/Success.java  
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jar/org/springframework/binding/expression/el/DefaultElContextFactory.java  
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jar/org/springframework/binding/format/PercentNumberFormatFactory.java  
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\*

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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToInteger.java

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/opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodKey.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ReverseConverter.java

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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionExecutorNotFoundException.java

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jar/org/springframework/binding/convert/ConversionExecutionException.java  
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jar/org/springframework/binding/method/InvalidMethodKeyException.java  
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jar/org/springframework/binding/method/MethodSignature.java  
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- /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/AbstractGetValueExpression.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/DefaultELResolver.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
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- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/SpringConvertingConverterAdapter.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/beanwrapper/package-info.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/package-info.java
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- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/el/package-info.java
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- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMappingContext.java
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- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/NullParserContext.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ParserContext.java
- \* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-

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jar/org/springframework/binding/expression/support/package-info.java
* /opt/cola/permits/1147791594_1617098784.08/0/spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/collection/MapAccessor.java
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jar/org/springframework/binding/expression/ValueCoercionException.java
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jar/org/springframework/binding/mapping/results/AbstractMappingResult.java
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\* /opt/cola/permits/1147791638\_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-  
jar/org/springframework/web/portlet/bind/annotation/RenderMapping.java  
\* /opt/cola/permits/1147791638\_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-  
jar/org/springframework/web/portlet/handler/SimpleMappingExceptionHandlerResolver.java  
\* /opt/cola/permits/1147791638\_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-  
jar/org/springframework/web/portlet/handler/AbstractHandlerExceptionHandlerResolver.java  
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```

Found in path(s):

```
* /opt/cola/permits/1147791638_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-
jar/org/springframework/web/portlet/mvc/EventAwareController.java
* /opt/cola/permits/1147791638_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-
jar/org/springframework/web/portlet/context/XmlPortletApplicationContext.java
*
/opt/cola/permits/1147791638_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-
jar/org/springframework/web/portlet/bind/annotation/ResourceMapping.java
* /opt/cola/permits/1147791638_1617098878.97/0/spring-webmvc-portlet-4-3-19-release-sources-2-
jar/org/springframework/web/portlet/bind/annotation/EventMapping.java
```

# 1.545 spring-oxm 4.3.19.RELEASE

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```

Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/config/Jaxb2MarshallerBeanDefinitionParser.java
```



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```

Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/config/JibxMarshallerBeanDefinitionParser.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/config/XmlBeansMarshallerBeanDefinitionParser.java
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```

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```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/mime/MimeMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/mime/MimeUnmarshaller.java
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```

Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/xstream/XStreamMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/config/OxmNamespaceHandler.java
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```

Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/castor/CastorMappingException.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/castor/CastorMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/config/CastorMarshallerBeanDefinitionParser.java
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Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/jibx/JibxMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/jaxb/Jaxb2Marshaller.java
```

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Found in path(s):

```
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/xstream/CatchAllConverter.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/support/AbstractMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/Marshaller.java
```

\*

/opt/cola/permits/1147791470\_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/Unmarshaller.java

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\* /opt/cola/permits/1147791470\_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/xmlbeans/XmlBeansMarshaller.java

\* /opt/cola/permits/1147791470\_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/xmlbeans/XmlOptionsFactoryBean.java

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\* /opt/cola/permits/1147791470\_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/ValidationFailureException.java

\* /opt/cola/permits/1147791470\_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-

```

jar/org/springframework/oxm/support/SaxResourceUtils.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/MarshallingException.java
*
/opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/UncategorizedMappingException.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/support/MarshallingSource.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/UnmarshallingFailureException.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/GenericMarshaller.java
* /opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/XmlMappingException.java
*
/opt/cola/permits/1147791470_1617249191.35/0/spring-oxm-4-3-19-release-sources-3-
jar/org/springframework/oxm/GenericUnmarshaller.java

```

## 1.546 spring-context-support

### 4.3.19.RELEASE

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#####

#####
#

```

```

# Defaults for the Java Activation Framework (revised).
# Modified extensions registered
  in this file:
# text/plain  java c c++ cpp pl cc h
# image/png   png
#
#####

text/html    html htm HTML HTM
text/plain   txt text TXT TEXT java c c++ cpp pl cc h
image/gif    gif GIF
image/ief    ief
image/jpeg   jpeg jpg jpe JPG
image/tiff   tiff tif
image/x-xwindowdump  xwd
application/postscript  ai eps ps
application/rtf  rtf
application/x-tex  tex
application/x-texinfo  texinfo texi
application/x-troff  t tr roff
audio/basic  au
audio/midi   midi mid
audio/x-aifc  aifc
audio/x-aiff  aif aiff
audio/x-mpeg  mpeg mpg
audio/x-wav   wav
video/mpeg   mpeg mpg mpe
video/quicktime  qt mov
video/x-msvideo  avi

#####
#
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
#####

#
TEXT TYPES

text/x-speech  talk
text/css       css
text/csv       csv

# IMAGE TYPES

# X-Windows bitmap (b/w)

```

image/x-xbitmap xbm  
# X-Windows pixelmap (8-bit color)  
image/x-pximap xpm  
# Portable Network Graphics  
image/png png  
# Image Exchange Format (RFC 1314)  
image/ief ief  
# RGB  
image/rgb rgb  
# Group III Fax (RFC 1494)  
image/g3fax g3f  
# X Windowdump format  
image/x-xwindowdump xwd  
# Macintosh PICT format  
image/x-pict pict  
# PPM (UNIX PPM package)  
image/x-portable-pixmap ppm  
# PGM (UNIX PPM package)  
image/x-portable-graymap pgm  
# PBM (UNIX PPM package)  
image/x-portable-bitmap pbm  
# PNM (UNIX PPM package)  
image/x-portable-anymap pnm  
# Microsoft Windows bitmap  
image/x-ms-bmp bmp  
# CMU raster  
image/x-cmu-raster ras  
# Kodak Photo-CD  
image/x-photo-cd pcd  
# Computer Graphics Metafile  
image/cgm cgm  
# CALS Type 1 or 2  
image/x-cals mil cal  
# Fractal Image Format (Iterated Systems)  
image/fif fif  
#  
QuickSilver active image (Micrografx)  
image/x-mgx-dsf dsf  
# CMX vector image (Corel)  
image/x-cmx cmx  
# Wavelet-compressed (Summus)  
image/wavelet wi  
# AutoCad Drawing (SoftSource)  
image/vnd.dwg dwg  
# AutoCad DXF file (SoftSource)  
image/vnd.dxf dxf  
# Simple Vector Format (SoftSource)  
image/vnd.svf svf

## # AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic"" audio - 8-bit u-law PCM"

audio/basic au snd

# Macintosh audio format (AIpple)

audio/x-aiff aif aiff aifc

# Microsoft audio

audio/x-wav wav

# MPEG audio

audio/x-mpeg mpa abs mpega

# MPEG-2 audio

audio/x-mpeg-2 mp2a mpa2

# compressed speech (Echo Speech Corp.)

audio/echospeech es

# Toolvox speech audio (Voxware)

audio/voxware vox

# RapidTransit compressed audio (Fast Man)

application/fastman lcc

# Realaudio (Progressive Networks)

application/x-pn-realaudio ra ram

# MIDI music data

x-music/x-midi mmid

# Koan music data (SSeyo)

application/vnd.koan skp

# Speech synthesis data (MVP Solutions)

text/x-speech talk

#

## VIDEO TYPES

# MPEG video

video/mpeg mpeg mpg mpe

# MPEG-2 video

video/mpeg-2 mpv2 mp2v

# Macintosh Quicktime

video/quicktime qt mov

# Microsoft video

video/x-msvideo avi

# SGI Movie format

video/x-sgi-movie movie

# VDOLive streaming video (VDOnet)

video/vdo vdo

# Vivo streaming video (Vivo software)

video/vnd.vivo viv

## # SPECIAL HTTP/WEB APPLICATION TYPES



# Proxy autoconfiguration (Netscape browsers)  
application/x-ns-proxy-autoconfig pac  
# Netscape Cooltalk chat data (Netscape)  
x-conference/x-cooltalk ice

#### # TEXT-RELATED

# PostScript  
application/postscript ai eps ps  
# Microsoft Rich Text Format  
application/rtf rtf  
# Adobe Acrobat PDF  
application/pdf pdf  
# Maker Interchange Format (FrameMaker)  
application/vnd.mif mif  
# Troff document  
application/x-troff t tr roff  
# Troff document with MAN macros  
application/x-troff-man man  
# Troff document with ME macros  
application/x-troff-me me  
# Troff document with MS macros  
application/x-troff-ms ms  
#  
LaTeX document  
application/x-latex latex  
# Tex/LaTeX document  
application/x-tex tex  
# GNU TexInfo document  
application/x-texinfo texinfo texi  
# TeX dvi format  
application/x-dvi dvi  
# MS word document  
application/msword doc DOC  
# Office Document Architecture  
application/oda oda  
# Envoy Document  
application/envoy evy

#### # ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format  
application/x-gtar gtar  
# 4.3BSD tar format  
application/x-tar tar  
# POSIX tar format  
application/x-ustar ustar  
# Old CPIO format

application/x-bcpio bcpio  
# POSIX CPIO format  
application/x-cpio cpio  
# UNIX sh shell archive  
application/x-shar shar  
# DOS/PC - Pkzipped archive  
application/zip zip  
# Macintosh Binhexed archive  
application/mac-binhex40 hqx  
# Macintosh Stuffit Archive  
application/x-stuffit sit sea  
# Fractal Image Format  
application/fractals fif  
# "Binary UUencoded"  
application/octet-stream bin uu  
# PC executable  
application/octet-stream exe  
# "WAIS ""sources"""  
application/x-wais-source src  
wsrc  
# NCSA HDF data format  
application/hdf hdf

#### # DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program  
text/javascript js ls mocha  
# UNIX bourne shell program  
application/x-sh sh  
# UNIX c-shell program  
application/x-csh csh  
# Perl program  
application/x-perl pl  
# Tcl (Tool Control Language) program  
application/x-tcl tcl

#### # ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)  
application/futuresplash spl  
# mBED multimedia data (mBED)  
application/mbedlet mbd  
# PowerMedia multimedia (RadMedia)  
application/x-rad-powermedia rad

#### # PRESENTATION

# PowerPoint presentation (Microsoft)

application/mspowerpoint ppz  
# ASAP WordPower (Software Publishing Corp.)  
application/x-asap asp  
# Astound Web Player multimedia data (GoldDisk)  
application/astound asn

#### # SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)  
application/x-olescript axs  
# OLE Object (Microsoft/NCompass)  
application/x-oleobject ods  
# OpenScape  
OLE/OCX objects (Business@Web)  
x-form/x-openscape opp  
# Visual Basic objects (Amara)  
application/x-webbasic wba  
# Specialized data entry forms (Alpha Software)  
application/x-alpha-form frm  
# client-server objects (Wayfarer Communications)  
x-script/x-wfxclient wfx

#### # GENERAL APPLICATIONS

# Undefined binary data (often executable progs)  
application/octet-stream exe com  
# Pointcast news data (Pointcast)  
application/x-pcn pcn  
# Excel spreadsheet (Microsoft)  
application/vnd.ms-excel xls  
# PowerPoint (Microsoft)  
application/vnd.ms-powerpoint ppt  
# Microsoft Project (Microsoft)  
application/vnd.ms-project mpp  
# SourceView document (Dataware Electronics)  
application/vnd.svd svd  
# Net Install - software install (20/20 Software)  
application/x-net-install ins  
# Carbon Copy - remote control/access (Microcom)  
application/ccv ccv  
# Spreadsheets (Visual Components)  
workbook/formulaone vts

#### # 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file  
x-world/x-vrml wrl vrml  
# WIRL -

VRML data (VREAM)  
x-world/x-vream vrw  
# Play3D 3d scene data (Play3D)  
application/x-p3d p3d  
# Viscape Interactive 3d world data (Superscape)  
x-world/x-svr svr  
# WebActive 3d data (Plastic Thought)  
x-world/x-wvr wvr  
# QuickDraw3D scene data (Apple)  
x-world/x-3dmf 3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook  
application/mathematica ma  
# Computational meshes for numerical simulations  
x-model/x-mesh msh  
# Vis5D 5-dimensional data  
application/vis5d v5d  
# IGES models -- CAD/CAM (CGM) data  
application/iges igs  
# Autocad WHIP vector drawings  
drawing/x-dwf dwf

Found in path(s):

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/mime.types

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\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailParseException.java

\*

/opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailSendException.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailPreparationException.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java

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/opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java

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- /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java
  - \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java
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*
/opt/cola/permits/1006521779_1602614316.44/0/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-
jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java
* /opt/cola/permits/1006521779_1602614316.44/0/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-
sources-jar/org/apache/commons/dbcp/ConnectionFactory.java
* /opt/cola/permits/1006521779_1602614316.44/0/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-
sources-jar/org/apache/commons/dbcp/DelegatingCallableStatement.java
```

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/PooledConnectionImpl.java

\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/BasicDataSourceFactory.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolablePreparedStatement.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolingDataSource.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/UserPassKey.java

\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DbcException.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedConfig.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingConnection.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/SQLNestedException.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedTrace.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolableConnection.java

\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolingDriver.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/jocl/ConstructorUtil.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedObjectPool.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingResultSet.java

\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PoolKey.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/LRUMap.java  
\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DriverConnectionFactory.java  
\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/BasicDataSource.java  
\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingStatement.java  
\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java  
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\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/CPDSConnectionFactory.java

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/KeyedCPDSConnectionFactory.java

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\*

/opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/package.html

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/package.html

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/jocl/package.html

\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/package.html

## 1.548 commons-logging 1.1.1

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# 1.549 dom4j 1.6.1

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History:

| Date      | Who | What                               |
|-----------|-----|------------------------------------|
| 28oct1999 | dl  | Created                            |
| 14dec1999 | dl  | jmm snapshot                       |
| 19apr2000 | dl  | use barrierLock                    |
| 12jan2001 | dl  | public release                     |
| 17nov2001 | dl  | Minor tunings                      |
| 20may2002 | dl  | BarrierLock can now be serialized. |
| 09dec2002 | dl  | Fix interference checks.           |

\*/

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jar/org/dom4j/InvalidXPathException.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java
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jar/org/dom4j/swing/XMLTableColumnDefinition.java
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/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NodeComparator.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocument.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventWriter.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractText.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractBranch.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/io/SAXEventRecorder.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dom/DOMNamespace.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyElement.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BaseElement.java
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/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMElement.java
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* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/jaxb/JAXBRuntimeExcpetion.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/xpp/ProxyXmlStartTag.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttribute.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Stylesheet.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dom/DOMEntityReference.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/FlyweightAttribute.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultText.java
*

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/opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLResult.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/dom/DOMNodeHelper.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPathException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractElement.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/namespace/namespace.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Pattern.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMWriter.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/IllegalAddException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMCDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/datatype/DatatypeDocumentFactory.java  
 \*  
 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/AttributeDecl.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/util/UserDataDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBWriter.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Attribute.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/bean/BeanDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ElementHandler.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightText.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/JAXPHelper.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/util/PerThreadSingleton.java  
 \*  
 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/QNameCache.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/VisitorSupport.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentResult.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Entity.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/NodeFilter.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultElement.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Rule.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CharacterData.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/io/PruningDispatchHandler.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/dom/DOMDocumentType.java  
 \*  
 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBSupport.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/ElementStack.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultXPath.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLWriter.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventReader.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
 jar/org/dom4j/swing/XMLTableDefinition.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-

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jar/org/dom4j/io/SAXModifyContentHandler.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXValidator.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBReader.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyReader.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FilterIterator.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BackedList.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentException.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Comment.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dtd/ExternalEntityDecl.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMReader.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/util/XMLErrorHandler.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Text.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/swing/BranchTreeNode.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/ElementDecl.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractEntity.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/HTMLWriter.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/datatype/DatatypeAttribute.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/UserDataElement.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentType.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/io/SAXModifyElementHandler.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultNamespace.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/RuleManager.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Action.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/ElementModifier.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/ElementNameIterator.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/QName.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/util/NonLazyDocumentFactory.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMText.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/DefaultDocument.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dom/DOMAttributeNodeMap.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/util/IndexedDocumentFactory.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-

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jar/org/dom4j/datatype/DatatypeElementFactory.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dom/DOMProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/DefaultDocumentType.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/dtd/InternalEntityDecl.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/DefaultProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMComment.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/util/UserDataAttribute.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/FlyweightComment.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/FlyweightProcessingInstruction.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/io/PruningElementStack.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/NamespaceCache.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/datatype/SchemaParser.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/AbstractComment.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/AbstractDocumentType.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/io/SAXContentHandler.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBModifier.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXWriter.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/swing/DocumentTreeModel.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/SingletonStrategy.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPP3Reader.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/OutputFormat.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/AbstractDocument.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Visitor.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultComment.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/datatype/DatatypeElement.java
*
/opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/SimpleSingleton.java
* /opt/cola/permits/1150916825_1617719489.56/0/dom4j-1-6-1-sources-4-
jar/org/dom4j/swing/XMLTableModel.java

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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/RuleSet.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Element.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBObjectModifier.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractAttribute.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultCDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanMetaData.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DispatchHandler.java  
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 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ContentListFacade.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Document.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/pattern/DefaultPattern.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ElementPath.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementIterator.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBObjectHandler.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/NamedTypeResolver.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultNamespaceContext.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocumentFactory.java  
 \*  
 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractProcessingInstruction.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/XPathPattern.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCharacterData.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXReader.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Mode.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightCDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultEntity.java  
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 /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttribute.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXHelper.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/ProxyDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttributeList.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanElement.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCDATA.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentInputSource.java

## 1.550 txw2 2.2.11

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# 1.569 es6-weak-map 2.0.3

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# 1.570 cisco-velocity 1.7c

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Found in path(s):

```
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/LogChute.java
*
 /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/Renderable.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/util/StringResourceRepositoryImpl.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/io/UnicodeInputStream.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/loader/FileResourceLoader.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/Runtime.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/introspection/SecureIntrospectorImpl.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/RuntimeConstants.java
*
 /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ParserVisitor.java
```

```
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/Template.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/ArrayListWrapper.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/loader/StringResourceLoader.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/ResourceManagerImpl.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/introspection/AbstractChainableUberspector.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/util/StringResource.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/MacroOverflowException.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/introspection/ChainableUberspector.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/util/StringResourceRepository.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/MethodInvocationException.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/VelocityEngine.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/RuntimeMacro.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/Node.java
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Found in path(s):

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Scope.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Parse.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/tools/VelocityFormatter.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/SetExecutor.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/ExceptionUtils.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/MacroParseException.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/SimplePool.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/implement/EscapeSqlReference.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/IntrospectionCacheData.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/InternalHousekeepingContext.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/UberspectImpl.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/HoldingLogChute.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/AbstractContext.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/VelMethod.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/InternalContextAdapterImpl.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/EventHandlerUtil.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/visitor/BaseVisitor.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/implement/InvalidReferenceInfo.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/VelocimacroFactory.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/loader/URLResourceLoader.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/loader/ClasspathResourceLoader.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTText.java

```

* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTEscapedDirective.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/RuntimeLoggerLog.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/ResourceCache.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/Directive.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/loader/JarResourceLoader.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/Log.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/MapGetExecutor.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/RuntimeServices.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/implement/EscapeJavaScriptReference.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/Include.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/introspection/IntrospectionUtils.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/VelocimacroManager.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/TemplateNumber.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/introspection/Uberspect.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/ForeachScope.java
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jar/org/apache/velocity/app/event/implement/EscapeReference.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTElseIfStatement.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/ExtendedParseException.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTVariable.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTNENode.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/DirectiveConstants.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/Log4JLogChute.java
*

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/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTEQNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/SecureUberspector.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Foreach.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/LogChuteSystem.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/Velocity.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/exception/TemplateInitException.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/exception/VelocityException.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/ProxyVMContext.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/LogSystem.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/SetPropertyExecutor.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTNotNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/InputBase.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/Info.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/MethodMap.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/implement/IncludeRelativePath.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/IntrospectorCache.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/UberspectLoggable.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTDivNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/implement/EscapeHtmlReference.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTIdentifier.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTObjectArray.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTSubtractNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-



```

jar/org/apache/velocity/runtime/parser/node/MapSetExecutor.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/StopCommand.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/VelocityCharStream.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/BooleanPropertyExecutor.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTDirective.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTExpression.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTIfStatement.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/LogManager.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/context/EvaluateContext.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTMethod.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/InvalidReferenceEventHandler.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTMap.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/NullLogSystem.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTBlock.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/BlockMacro.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTParameters.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/EventHandlerMethodExecutor.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/context/InternalEventContext.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/log/JdkLogChute.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/PropertyExecutor.java
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jar/org/apache/velocity/runtime/parser/node/PutExecutor.java
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/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/Evaluate.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTEscape.java

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\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/SimpleLog4JLogSystem.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTGTNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/loader/ResourceLoaderFactory.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTIntegerLiteral.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/VelocimacroProxy.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/AbstractExecutor.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/LogDisplayWrapper.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTAssignment.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Stop.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/PrimordialLogSystem.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/ResourceManager.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTGENode.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/implement/EscapeXmlReference.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/VelPropertyGet.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/StringUtils.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTMathNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/RuntimeLogger.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/SystemLogChute.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/InternalContextAdapter.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/context/Context.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTLTNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/VelocityContext.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-

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jar/org/apache/velocity/context/InternalContextBase.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/loader/JarHolder.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTTextblock.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/ArrayIterator.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/GetExecutor.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/Macro.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/ResourceFactory.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/directive/Define.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTIndex.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/MathException.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/Resource.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTComment.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/implement/PrintExceptions.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/implement/ReportInvalidReferences.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/ResourceNotFoundException.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTLNode.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/MethodExceptionEventHandler.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTFalse.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTFloatingPointLiteral.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/util/RuntimeServicesAware.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/resource/loader/ResourceLoader.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/EventHandler.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/app/event/ReferenceInsertionEventHandler.java

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\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/ContentResource.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Block.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/SecureIntrospectorControl.java

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/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTAndNode.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/MathUtils.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/directive/Break.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/io/VelocityWriter.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTOrNode.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/Introspector.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/ResourceCacheImpl.java

\*

/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/IntrospectorBase.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTAddNode.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/EnumerationIterator.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTTrue.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/ClassUtils.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/introspection/ClassMap.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/node/ASTElseStatement.java

\*

/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/ContextAware.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/resource/loader/DataSourceResourceLoader.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/util/MapFactory.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/log/Log4JLogSystem.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/NullSetEventHandler.java

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-

jar/org/apache/velocity/runtime/parser/TemplateParseException.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/ParserPool.java  
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\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/util/introspection/IntrospectorCacheImpl.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/parser/node/ASTIncludeStatement.java  
\*  
/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
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jar/org/apache/velocity/app/event/IncludeEventHandler.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/util/introspection/LinkingUberspector.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/parser/node/ASTIntegerRange.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/parser/node/ASTModNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/ParserPoolImpl.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
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/opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
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\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/app/event/implement/IncludeNotFound.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/RuntimeSingleton.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/context/ChainedInternalContextAdapter.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/parser/node/ASTMulNode.java  
\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-  
jar/org/apache/velocity/runtime/parser/node/ASTSetDirective.java

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* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/exception/ParseException.java
*
/opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/RuntimeInstance.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/ASTReference.java
* /opt/cola/permits/1114224856_1699262790.6534128/0/cisco-velocity-1-7c-sources-
jar/org/apache/velocity/runtime/parser/node/NodeUtils.java
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```

```
*/
/**
* Stores the event handlers. Event handlers can be assigned on a per
* VelocityEngine instance basis by specifying
the class names in the
* velocity.properties file. Event handlers may also be assigned on a per-page
* basis by creating a new instance of EventCartridge, adding the event
* handlers, and then calling attachToContext. For clarity, it's recommended
* that one approach or the other be followed, as the second method is primarily
* presented for backwards compatibility.
```

```
*
* <P>
* Note that Event Handlers follow a filter pattern, with multiple event
* handlers allowed for each event. When the appropriate event occurs, all the
* appropriate event handlers are called in the sequence they were added to the
* Event Cartridge. See the javadocs of the specific event handler interfaces
* for more details.
```

```
*
* @author <a href="mailto:wglass@wglass@forio.com">Will Glass-Husain </a>
* @author <a href="mailto:geirm@optonline.net">Geir Magnusson Jr. </a>
```

\* @author <a href="mailto:j\_a\_fernandez@yahoo.com">Jose Alberto Fernandez </a>  
\* @version \$Id: EventCartridge.java 685685 2008-08-13  
21:43:27Z nsubna \$  
\*/

Found in path(s):

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/app/event/EventCartridge.java

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\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/parser/build.sh

\* /opt/cola/permits/1114224856\_1699262790.6534128/0/cisco-velocity-1-7c-sources-jar/org/apache/velocity/runtime/defaults/directive.properties

# 1.571 clone-deep 4.0.1

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# 1.572 d 1.0.1

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# 1.573 figgy-pudding 3.5.2

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# 1.576 es6-symbol 3.1.3

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# 1.577 filter-obj 1.1.0

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# 1.578 jta 1.1.0

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Found in path(s):

```
* /opt/cola/permits/1163925133_1620933582.81/0/commander-4-1-1-gem/data-tar-gz/lib/commander.rb
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= Commander

The complete solution for Ruby command-line executables.

Commander bridges the gap between other terminal related libraries you know and love (OptionParser, HighLine), while providing many new features, and an elegant API.

== Features

- \* Easier than baking cookies
- \* Parses options using OptionParser
- \* Auto-populates struct with options ( no more { |v| options[:recursive] = v } )
- \* Auto-generates help documentation via pluggable help formatters
- \* Optional default command when none is present
- \* Global / Command level options
- \* Packaged with two help formatters (Terminal, TerminalCompact)
- \* Imports the highline gem for interacting with the terminal
- \* Adds additional user interaction functionality
- \* Highly customizable progress bar with intuitive, simple usage
- \* Multi-word command name support such as 'drupal module install MOD', rather than 'drupal module\_install MOD'
- \* Sexy paging for long bodies of text



\*

Support for MacOS text-to-speech

\* Command aliasing (very powerful, as both switches and arguments can be used)

\* Growl notification support for MacOS

\* Use the 'commander' executable to initialize a commander driven program

== Installation

```
$ gem install commander
```

== Quick Start

To generate a quick template for a commander app, run:

```
$ commander init yourfile.rb
```

== Example

For more option examples view the `Commander::Command#option` method. Also an important feature to note is that action may be a class to instantiate, as well as an object, specifying a method to call, so view the RDoc for more information.

```
require 'rubygems'
require 'commander/import'
```

```
# :name is optional, otherwise uses the basename of this executable
program :name, 'Foo Bar'
program :version, '1.0.0'
program :description, 'Stupid command that prints foo or bar.'
```

```
command :foo do |c|
  c.syntax = 'foobar foo'
  c.description = 'Displays foo'
  c.action do |args, options|
```

```
    say 'foo'
  end
end
```

```
command :bar do |c|
  c.syntax = 'foobar bar [options]'
  c.description = 'Display bar with optional prefix and suffix'
  c.option '--prefix STRING', String, 'Adds a prefix to bar'
  c.option '--suffix STRING', String, 'Adds a suffix to bar'
  c.action do |args, options|
    options.default :prefix => '(', :suffix => ')'
    say "#{options.prefix}bar#{options.suffix}"
  end
end
```

end

```
$ foobar bar
```

```
# => (bar)
```

```
$ foobar bar --suffix '{' --prefix '}'
```

```
# => {bar}
```

== HighLine

As mentioned above the highline gem is imported into 'global scope', below are some quick examples for how to utilize highline in your command(s):

```
# Ask for password masked with '*' character
```

```
ask("Password: ") { |q| q.echo = "*" }
```

```
# Ask for password
```

```
ask("Password: ") { |q| q.echo = false }
```

```
# Ask if the user agrees (yes or no)
```

```
agree("Do something?")
```

```
# Asks on a single line (note the space after ':')
```

```
ask("Name: ")
```

```
# Asks with new line after "Description:"
```

```
ask("Description:")
```

```
# Calls Date#parse to parse the date string passed
```

```
ask("Birthday? ", Date)
```

```
# Ensures Integer is within the range specified
```

```
ask("Age? ", Integer) { |q| q.in = 0..105 }
```

```
# Asks for a list of strings, converts to array
```

```
ask("Fav colors?", Array)
```

== HighLine & Interaction Additions

In addition to highline's fantastic choice of methods, commander adds the following methods to simplify common tasks:

```
# Ask for password
```

```
password
```

```
# Ask for password with specific message and mask character
```

```
password "Enter your password please:", '-'
```

```

# Ask for CLASS, which may be any valid class responding to #parse. Date, Time, Array, etc
names = ask_for_array 'Names: '
bday = ask_for_date 'Birthday?: '

# Simple progress bar (Commander::UI::ProgressBar)
uris = %w[
  http://vision-media.ca
  http://google.com
  http://yahoo.com
]
progress uris do |uri|
  res = open uri
  # Do something with response
end

# 'Log' action to stdout
log "create", "path/to/file.rb"

# Enable paging of output after this point
enable_paging

# Ask editor for input (EDITOR environment variable or whichever is available: TextMate, vim, vi, emacs, nano,
pico)
ask_editor

# Ask editor, supplying initial text
ask_editor 'previous data to update'

# Ask editor, preferring a specific editor
ask_editor 'previous data', 'vim'

# Choose from an array of elements
choice = choose("Favorite language?", :ruby, :perl, :js)

# Alter IO for the duration of the block
io new_input, new_output do
  new_input_contents = $stdin.read
  puts new_input_contents # outputs to new_output stream
end
# $stdin / $stdout reset back to original streams

# Speech synthesis
speak 'What is your favorite food? '
food = ask 'favorite food?: '
speak "Wow, I like #{food} too. We have so much in common."

# Execute arbitrary applescript

```

```
applescript 'foo'
```

```
# Converse with speech recognition server
case converse 'What is the best food?', :cookies => 'Cookies', :unknown => 'Nothing'
when :cookies
  speak 'o.m.g. you are awesome!'
else
  case converse 'That is lame, shall I convince you cookies are the best?', :yes => 'Ok', :no => 'No', :maybe =>
'Maybe another time'
  when :yes
    speak 'Well you see, cookies are just fantastic, they melt in your mouth.'
  else
    speak 'Ok then, bye.'
  end
end
end
```

```
== Growl Notifications
```

Commander provides methods for displaying Growl notifications. To use these methods you need to install <http://github.com/visionmedia/growl> which utilizes the `growlnotify` [<http://growl.info/extras.php#growlnotify>] executable. Note that `growl` is auto-imported by Commander when available, no need to require.

```
# Display a generic Growl notification
notify 'Something happened'
```

```
# Display an 'info' status notification
notify_info 'You have #{emails.length} new email(s)'
```

```
# Display an 'ok' status
notification
notify_ok 'Gems updated'
```

```
# Display a 'warning' status notification
notify_warning '1 gem failed installation'
```

```
# Display an 'error' status notification
notify_error "Gem #{name} failed"
```

`growlnotify` can also be installed via `homebrew` [<http://mxcl.github.com/homebrew/>]:

```
$ brew install growlnotify
```

```
== Commander Goodies
```

```
=== Option Defaults
```

The options struct passed to #action provides a #default method, allowing you to set defaults in a clean manner for options which have not been set.

```
command :foo do |c|
  c.option '--interval SECONDS', Integer, 'Interval in seconds'
  c.option '--timeout SECONDS', Integer, 'Timeout in seconds'
  c.action do |args, options|
    options.default \
      :interval => 2,
      :timeout => 60
  end
end
```

### === Command Aliasing

Aliases can be created using the #alias\_command method like below:

```
command :'install gem' do |c|
  c.action { puts 'foo' }
end
alias_command :'gem install', :'install gem'
```

Or more

complicated aliases can be made, passing any arguments as if it was invoked via the command line:

```
command :'install gem' do |c|
  c.syntax = 'install gem <name> [options]'
  c.option '--dest DIR', String, 'Destination directory'
  c.action { |args, options| puts "installing #{args.first} to #{options.dest}" }
end
alias_command :update, :'install gem', 'rubygems', '--dest', 'some_path'
```

```
$ foo update
# => installing rubygems to some_path
```

### === Command Defaults

Although working with a command executable framework provides many benefits over a single command implementation, sometimes you still want the ability to create a terse syntax for your command. With that in mind we may use #default\_command to help with this. Considering our previous :'install gem' example:

```
default_command :update

$ foo
# => installing rubygems to some_path
```

Keeping in mind that commander searches for the longest possible match when considering a command, so if you were to pass arguments to foo like below, expecting them to be passed to :update, this would be incorrect, and would end up calling ':install gem', so be careful that the users do not need to use command names within the arguments.

```
$ foo install gem
# => installing to
```

### === Additional Global Help

Arbitrary help can be added using the following #program symbol:

```
program :help, 'Author', 'TJ Holowaychuk <tj@vision-media.ca>'
```

Which will output the rest of the help doc, along with:

AUTHOR:

```
TJ Holowaychuk <tj@vision-media.ca>
```

### === Global Options

Although most switches will be at the command level, several are available by default at the global level, such as --version, and --help. Using #global\_option you can add additional global options:

```
global_option('-c', '--config FILE', 'Load config data for your commands to use') { |file| ... }
```

This method accepts the same syntax as Commander::Command#option so check it out for documentation.

All global options regardless of providing a block are accessible at the command level. This means that instead of the following:

```
global_option('--verbose') { $verbose = true }
...
c.action do |args, options|
  say 'foo' if $verbose
...

```

You may:

```
global_option '--verbose'
...
c.action do |args, options|

```

say 'foo' if options.verbose

...

### === Formatters

Two core formatters are currently available, the default Terminal formatter as well as TerminalCompact. To utilize a different formatter simply use :help\_formatter like below:

```
program :help_formatter, Commander::HelpFormatter::TerminalCompact
```

Or utilize the help formatter aliases:

```
program :help_formatter, :compact
```

This abstraction could be utilized to generate HTML documentation for your executable.

### == Tips

When adding a global or command option, OptionParser implicitly adds a small switch even when not explicitly created, for example -c will be the same as --config in both examples, however '-c' will only appear in the documentation when explicitly assigning it.

```
global_option '-c', '--config FILE'
```

```
global_option '--config FILE'
```

### == ASCII Tables

For feature rich ASCII tables for your terminal app check out visionmedia's terminal-table gem at <http://github.com/visionmedia/terminal-table>

```
+-----+-----+---+-----+-----+
| Terminal | Table | Is | Wicked | Awesome      |
+-----+-----+---+-----+-----+
|   |   | |   | get it while its hot! |
+-----+-----+---+-----+-----+
```

### == Running Specifications

```
$ rake spec
```

OR

```
$ spec --color spec
```

### == Contrib

Feel free to fork and request a pull, or submit a ticket  
<http://github.com/visionmedia/commander/issues>

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\* /opt/cola/permits/1163925133\_1620933582.81/0/commander-4-1-1-gem/data-tar-gz/README.rdoc

## 1.580 semver-diff 3.1.1

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\* /opt/cola/permits/1168013945\_1622634812.48/0/lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/package.html  
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</thirdparty-licenses>
xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt,v 1.2
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java  
\*  
/opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java  
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jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/SimpleURType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/XSDatatype.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/SerializationContext.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java  
\*  
/opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/UnsignedLongType.java  
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jar/com/sun/msv/datatype/xsd/Base64BinaryType.java

\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
 jar/com/sun/msv/datatype/xsd/IDType.java  
 \* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
 jar/com/sun/msv/datatype/xsd/GYearMonthType.java  
 \* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
 jar/com/sun/msv/datatype/xsd/IntegerType.java  
 \* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
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 jar/com/sun/msv/datatype/xsd/Proxy.java  
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 jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java  
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 jar/com/sun/msv/datatype/xsd/regex/RegExp.java  
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 jar/com/sun/msv/datatype/xsd/FinalComponent.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java  
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*
/opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/QnameValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/XmlNames.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/HexBinaryType.java
*
/opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/PatternFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/UnsignedIntType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
*
/opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/RangeFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/NameType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/ListType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java

```



\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/StringType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ErrorHandler.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java  
\*  
/opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/ErrorHandlerLibrary.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDREFTType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java  
\*  
/opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryValueType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/Util.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NumberType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DoubleType.java  
\*  
/opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LanguageType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ByteType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-

jar/com/sun/msv/datatype/xsd/EntityType.java

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jar/com/sun/msv/datatype/regexp/message\_ja.properties  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/message.properties  
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jar/com/sun/msv/datatype/regexp/ParseException.java  
\*

```
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jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlb-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlb-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlb-2013-6-1-sources-2-
jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlb-2013-6-1-sources-2-
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# 1.617 json-smart 2.3

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 */
```

Found in path(s):

```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java
*
/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserString.java
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jar/net/minidev/json/writer/JsonReader.java
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/opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/BeansMapper.java  
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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CollectionMapper.java  
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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserInputStream.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserByteArray.java  
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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapper.java

# 1.618 jctools-core 3.0.0

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Manifest-Version: 1.0

Bnd-LastModified: 1578049665284

Build-Jdk: 1.8.0\_232

Built-By: yak

Bundle-Description: Java Concurrency Tools Core Library

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Java Concurrency Tools Core Library

Bundle-SymbolicName: org.jctools.core

Bundle-Version: 3.0.0

Created-By: Apache Maven Bundle Plugin

Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0";uses="sun.misc",org.jctools.queues;version="3.0.0";uses="org.jctools.queues.spec",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0";uses="org.jctools.queues,org.jctools.queues.spec"

Import-Package: sun.misc;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1177956791\_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/MANIFEST.MF

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```
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  </repository>
</distributionManagement>

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<inceptionYear>2013</inceptionYear>

<licenses>
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    <name>Apache
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```

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<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
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<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

\* /opt/cola/permits/1177956791\_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

## 1.619 babel-plugin-syntax-top-level-await

### 7.14.5

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## 1.620 memoize-one 5.2.1

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## 1.621 fs-readdir-recursive 1.1.0

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## 1.622 node-notifier 5.4.5

### 1.622.1 Available under license :

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# 1.623 sinon 11.1.2

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# 1.624 httpclient 3.10.0

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# 1.625 groovy 3.0.8

## 1.625.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * This file is adapted from the Antlr4 Java grammar which has the following license
 *
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 * All rights reserved.
 * [The "BSD licence"]
 *
 * http://www.opensource.org/licenses/bsd-license.php
 *
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 *
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 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
 * KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations
 * under the License.
 */
```

```

/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
 */
lexer grammar GroovyLexer;

options {
    superClass = AbstractLexer;
}

@header {
    import java.util.Deque;
    import java.util.ArrayDeque;
    import java.util.Map;
    import java.util.HashMap;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.Collections;
    import java.util.Arrays;
    import java.util.stream.IntStream;
    import java.util.logging.Logger;
    import java.util.logging.Level;
    import java.util.EmptyStackException;
    import org.apache.groovy.util.Maps;
    import static org.apache.groovy.parser antlr4.SemanticPredicates.*;
}

@members {
    private static final
    Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
    private long tokenIndex = 0;
    private int lastTokenType = 0;
    private int invalidDigitCount = 0;

    /**
     * Record the index and token type of the current token while emitting tokens.
     */
    @Override
    public void emit(Token token) {
        this.tokenIndex++;

        int tokenType = token.getType();
        if (Token.DEFAULT_CHANNEL == token.getChannel()) {
            this.lastTokenType = tokenType;
        }

        if (RollBackOne == tokenType) {
            this.rollbackOneChar();
        }
    }
}

```

```

    }

    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY =
    IntStream.of(
        Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK,
RBRACE,
        IntegerLiteral, FloatingPointLiteral, StringLiteral, GStringEnd, INC, DEC
    ).sorted().toArray();

private boolean isRegexAllowed() {
    if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
        return false;
    }

    return true;
}

/**
 * just a hook, which will be overridden by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {

```

```

        return line;
    }

    public int getColumn() {

return column;
    }

    @Override
    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null
== paren) return;
    parenStack.pop();
}

private boolean isInsideParens() {

```

```

Paren paren = parenStack.peek();

// We just care about "(" and "[", inside which the new lines will be ignored.
// Notice: the new lines between "{" and "}" can not be ignored.
if (null == paren) {
    return false;
}

return ("(" .equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(...)) as parenthesis
    || "[" .equals(paren.getText());
}
private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}
private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

@Override
public int getSyntaxErrorSource() {

    return GroovySyntaxError.LEXER;
}

@Override
public int getErrorLine() {
    return getLine();
}

@Override
public int getErrorColumn() {
    return getCharPositionInLine() + 1;
}

@Override
public int popMode() {
    try {
        return super.popMode();
    } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
}

```

```

        if (LOGGER.isLoggable(Level.FINEST)) {
            LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
    }

    return Integer.MIN_VALUE;
}

private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}
}

```

### // 3.10.5 String Literals

#### StringLiteral

```

: GStringQuotationMark DqStringCharacter* GStringQuotationMark
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark

| Slash { this.isRegexAllowed() && _input.LA(1) != '*' }?
    SlashyStringCharacter+ Slash

| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
| DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
;

```

#### // Groovy gstring

#### GStringBegin

```

: GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

#### TdqGStringBegin

```

: TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

#### SlashyGStringBegin

```

: Slash { this.isRegexAllowed()
&& _input.LA(1) != '*' }? SlashyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? ->
type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

#### DollarSlashyGStringBegin



```

: DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

mode DQ_GSTRING_MODE;
GStringEnd
: GStringQuotationMark -> popMode
;
GStringPart
: Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
GStringCharacter
: DqStringCharacter -> more
;

mode TDQ_GSTRING_MODE;
TdqGStringEnd
: TdqStringQuotationMark -> type(GStringEnd), popMode
;
TdqGStringPart
: Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
TdqGStringCharacter
: TdqStringCharacter -> more
;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
:
Dollar? Slash -> type(GStringEnd), popMode
;
SlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
SlashyGStringCharacter
: SlashyStringCharacter -> more
;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
: DollarSlashyGStringQuotationMarkEnd -> type(GStringEnd), popMode
;
DollarSlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

```

DollarSlashyGStringCharacter
: DollarSlashyStringCharacter -> more
;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
: '{ { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
;
GStringIdentifier
: IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
;

```

```

mode GSTRING_PATH_MODE;
GStringPathPart
: Dot IdentifierInGString
;
RollBackOne
: . {
    //
    a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ("" == readChar || ' ' == readChar)) {
        setType(GStringEnd);
    } else {
        setChannel(HIDDEN);
    }
    } -> popMode
;

```

```

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
: ~["\r\n\\$]
| EscapeSequence
;

```

```

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
: ~[\'r\n\\]
| EscapeSequence
;

```

```

// character in the triple double quotation string. e.g. ""a""
fragment TdqStringCharacter

```

```

: ~["\\$]
| GStringQuotationMark { _input.LA(1) != "" || _input.LA(2) != "" || _input.LA(3) == "" && (_input.LA(4) != ""
|| _input.LA(5) != "") }?
| EscapeSequence
;

```

// character in the triple single quotation string. e.g. "a"

fragment TsqStringCharacter

```

: ~[\\]
| SqStringQuotationMark
{ _input.LA(1) != \" || _input.LA(2) != \" || _input.LA(3) == \" && (_input.LA(4) != \" || _input.LA(5) != \") }?
| EscapeSequence
;

```

// character in the slashy string. e.g. /a/

fragment SlashyStringCharacter

```

: SlashEscape
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/\$\\u0000]
;

```

// character in the dollar slashy string. e.g. \$/a/\$

fragment DollarSlashyStringCharacter

```

: DollarSlashEscape | DollarDollarEscape
| Slash { _input.LA(1) != '$' }?
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/\$\\u0000]
;

```

// Groovy keywords

```

AS      : 'as';
DEF     : 'def';
IN      : 'in';
TRAIT   : 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

```

// the reserved type name of Java10

```

VAR     : 'var';

```

// 3.9 Keywords

BuiltInPrimitiveType

```

: BOOLEAN
| CHAR
| BYTE
| SHORT
| INT
| LONG
| FLOAT

```

```
| DOUBLE
;

ABSTRACT    : 'abstract';
ASSERT     : 'assert';

fragment
BOOLEAN    : 'boolean';

BREAK      : 'break';

fragment
BYTE       : 'byte';

CASE       : 'case';
CATCH     : 'catch';

fragment
CHAR       : 'char';

CLASS      : 'class';
CONST     : 'const';
CONTINUE  : 'continue';
DEFAULT   : 'default';
DO        : 'do';

fragment
DOUBLE    : 'double';

ELSE      : 'else';
ENUM      : 'enum';
EXTENDS   : 'extends';
FINAL     : 'final';
FINALLY   : 'finally';

fragment
FLOAT     : 'float';

FOR       : 'for';
IF        : 'if';
GOTO     : 'goto';
IMPLEMENTS : 'implements';
IMPORT    : 'import';
INSTANCEOF : 'instanceof';

fragment
INT       : 'int';
```

```
INTERFACE    : 'interface';
```

```
fragment
```

```
LONG        : 'long';
```

```
NATIVE      : 'native';
```

```
NEW         : 'new';
```

```
PACKAGE     : 'package';
```

```
PRIVATE     : 'private';
```

```
PROTECTED   : 'protected';
```

```
PUBLIC       : 'public';
```

```
RETURN      :
```

```
'return';
```

```
fragment
```

```
SHORT       : 'short';
```

```
STATIC      : 'static';
```

```
STRICTFP    : 'strictfp';
```

```
SUPER       : 'super';
```

```
SWITCH      : 'switch';
```

```
SYNCHRONIZED : 'synchronized';
```

```
THIS        : 'this';
```

```
THROW       : 'throw';
```

```
THROWS      : 'throws';
```

```
TRANSIENT   : 'transient';
```

```
TRY         : 'try';
```

```
VOID        : 'void';
```

```
VOLATILE    : 'volatile';
```

```
WHILE       : 'while';
```

```
// 3.10.1 Integer Literals
```

```
IntegerLiteral
```

```
  : ( DecimalIntegerLiteral  
    | HexIntegerLiteral  
    | OctalIntegerLiteral  
    | BinaryIntegerLiteral  
    ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?
```

```
// !!! Error Alternative !!!
```

```
  | Zero ([0-9] { invalidDigitCount++; })+ { require(false, "Invalid octal number", -(invalidDigitCount + 1), true);  
  } IntegerTypeSuffix?  
  ;
```

fragment

Zero

: '0'  
;

fragment

DecimalIntegerLiteral

: DecimalNumeral IntegerTypeSuffix?  
;

fragment

HexIntegerLiteral

: HexNumeral  
IntegerTypeSuffix?  
;

fragment

OctalIntegerLiteral

: OctalNumeral IntegerTypeSuffix?  
;

fragment

BinaryIntegerLiteral

: BinaryNumeral IntegerTypeSuffix?  
;

fragment

IntegerTypeSuffix

: [LiIgG]  
;

fragment

DecimalNumeral

: Zero  
| NonZeroDigit (Digits? | Underscores Digits)  
;

fragment

Digits

: Digit (DigitOrUnderscore\* Digit)?  
;

fragment

Digit

: Zero  
| NonZeroDigit  
;

fragment  
NonZeroDigit  
: [1-9]  
;

fragment  
DigitOrUnderscore  
: Digit  
| Underscore  
;

fragment  
Underscores  
: Underscore+  
;

fragment  
Underscore  
: '\_'  
;

fragment  
HexNumeral  
: Zero [xX] HexDigits  
;

fragment  
HexDigits  
: HexDigit (HexDigitOrUnderscore\* HexDigit)?  
;

fragment  
HexDigit  
: [0-9a-fA-F]  
;

fragment  
HexDigitOrUnderscore  
: HexDigit  
| Underscore  
;

fragment  
OctalNumeral  
: Zero Underscores? OctalDigits  
;

fragment

```
OctalDigits
  : OctalDigit
  (OctalDigitOrUnderscore* OctalDigit)?
  ;
```

```
fragment
OctalDigit
  : [0-7]
  ;
```

```
fragment
OctalDigitOrUnderscore
  : OctalDigit
  | Underscore
  ;
```

```
fragment
BinaryNumeral
  : Zero [bB] BinaryDigits
  ;
```

```
fragment
BinaryDigits
  : BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
  ;
```

```
fragment
BinaryDigit
  : [01]
  ;
```

```
fragment
BinaryDigitOrUnderscore
  : BinaryDigit
  | Underscore
  ;
```

// 3.10.2 Floating-Point Literals

```
FloatingPointLiteral
  : ( DecimalFloatingPointLiteral
    | HexadecimalFloatingPointLiteral
    ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); } )?
  ;
```

```
fragment
DecimalFloatingPointLiteral
  : Digits Dot Digits ExponentPart? FloatTypeSuffix?
```



```
| Digits ExponentPart FloatTypeSuffix?  
| Digits FloatTypeSuffix  
;
```

```
fragment  
ExponentPart  
: ExponentIndicator SignedInteger  
;
```

```
fragment  
ExponentIndicator  
: [eE]  
;
```

```
fragment  
SignedInteger  
: Sign? Digits  
;
```

```
fragment  
Sign  
: [+\\-]  
;
```

```
fragment  
FloatTypeSuffix  
: [fFdDgG]  
;
```

```
fragment  
HexadecimalFloatingPointLiteral  
: HexSignificand BinaryExponent FloatTypeSuffix?  
;
```

```
fragment  
HexSignificand  
: HexNumeral Dot?  
| Zero [xX] HexDigits? Dot HexDigits  
;
```

```
fragment  
BinaryExponent  
: BinaryExponentIndicator SignedInteger  
;
```

```
fragment  
BinaryExponentIndicator  
: [pP]
```

```

;

fragment
Dot : '.'
;

// 3.10.3 Boolean Literals

BooleanLiteral
: 'true'
| 'false'
;

// 3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
: Backslash [btnfrs"\\]
| OctalEscape
| UnicodeEscape
| DollarEscape
| LineEscape
;

fragment
OctalEscape
: Backslash OctalDigit
| Backslash OctalDigit OctalDigit
| Backslash ZeroToThree OctalDigit OctalDigit
;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
:
Backslash 'u' HexDigit HexDigit HexDigit HexDigit
;

fragment
ZeroToThree
: [0-3]
;

// Groovy Escape Sequences

fragment

```

DollarEscape  
: Backslash Dollar  
;

fragment  
LineEscape  
: Backslash LineTerminator  
;

fragment  
LineTerminator  
: '\r'? '\n' | '\r'  
;

fragment  
SlashEscape  
: Backslash Slash  
;

fragment  
Backslash  
: '\\'  
;

fragment  
Slash  
: '/'  
;

fragment  
Dollar  
: '\$'  
;

fragment  
GStringQuotationMark  
: ""  
;

fragment  
SqStringQuotationMark  
: "\"  
;

fragment  
TdqStringQuotationMark  
: """"  
;

```
fragment
TsycopgStringQuotationMark
: '\\\\'
;
```

```
fragment
DollarSlashyGStringQuotationMarkBegin
: '$/'
;
```

```
fragment
DollarSlashyGStringQuotationMarkEnd
: '/'
;
```

```
fragment
DollarSlashEscape
: '$/'
;
```

```
fragment
DollarDollarEscape
: '$$'
;
```

```
// 3.10.7 The Null Literal
NullLiteral
: 'null'
;
```

```
// Groovy Operators
```

```
RANGE_INCLUSIVE :
'..';
RANGE_EXCLUSIVE : '.<';
SPREAD_DOT : '*.';
SAFE_DOT : '?.';
SAFE_CHAIN_DOT : '??.';
ELVIS : '?.';
METHOD_POINTER : '.'&';
METHOD_REFERENCE : '::';
REGEX_FIND : '=~';
REGEX_MATCH : '==~';
POWER : '**';
POWER_ASSIGN : '**=';
SPACESHIP : '<=>';
IDENTICAL : '===';
```

```

NOT_IDENTICAL    : '!==';
ARROW            : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF   : '!instanceof' { isFollowedBy(_input, '\t', '\r', '\n') }?;
NOT_IN           : '!in'      { isFollowedBy(_input, '\t', '\r', '\n', '[', '(', '{') }?;

```

### // 3.11 Separators

```

LPAREN          : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN          : ')' { this.exitParen(); } -> popMode;

LBRACE          : '{' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACE          : '}' { this.exitParen(); } -> popMode;

LBRACK          : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK          : ']' { this.exitParen(); } -> popMode;

SEMI           : ';';
COMMA          : ',';
DOT            : Dot;

```

### // 3.12 Operators

```

ASSIGN         : '=';
GT             : '>';
LT             : '<';
NOT            : '!';
BITNOT         : '~';
QUESTION       : '?';
COLON          : ':';
EQUAL          : '==';
LE             : '<=';
GE             : '>=';
NOTEQUAL       : '!=';
AND            : '&&';
OR             : '||';
INC            : '++';
DEC            : '--';
ADD            : '+';
SUB            : '-';
MUL            : '*';
DIV            : Slash;
BITAND         : '&';
BITOR          : '|';
XOR            : '^';

```

MOD : '%';

ADD\_ASSIGN : '+=';

SUB\_ASSIGN : '-=';

MUL\_ASSIGN : '\*=';

DIV\_ASSIGN : '/=';

AND\_ASSIGN : '&=';

OR\_ASSIGN : '|=';

XOR\_ASSIGN : '^=';

MOD\_ASSIGN : '%=';

LSHIFT\_ASSIGN :

'<<=';

RSHIFT\_ASSIGN : '>>=';

URSHIFT\_ASSIGN : '>>>=';

ELVIS\_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

: JavaLetter {Character.isUpperCase(\_input.LA(-1))}? JavaLetterOrDigit\*

;

Identifier

: JavaLetter JavaLetterOrDigit\*

;

fragment

IdentifierInGString

: JavaLetterInGString JavaLetterOrDigitInGString\*

;

fragment

JavaLetter

: [a-zA-Z\$\_] // these are the "java letters" below 0x7F

| // covers all characters above 0x7F which are not a surrogate

~[\u0000-\u007F\uD800-\uDBFF]

{ isJavaIdentifierStartAndNotIdentifierIgnorable(\_input.LA(-1)) }?

| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF

[\uD800-\uDBFF] [\uDC00-\uDFFF]

{ Character.isJavaIdentifierStart(Character.toCodePoint((char) \_input.LA(-2), (char) \_input.LA(-1))) }?

;

fragment

JavaLetterInGString

: JavaLetter { \_input.LA(-1) != '\$' }?

;

fragment

JavaLetterOrDigit

```
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\uD800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;
```

fragment

JavaLetterOrDigitInGString

```
: JavaLetterOrDigit { _input.LA(-1) != '$' }?
;
```

fragment

ShCommand

```
: ~[\r\n\uFFFF]*
;
```

//

// Additional symbols not defined in the lexical specification

//

AT : '@';

ELLIPSIS : '...';

//

// Whitespace, line escape and comments

//

WS : ([\t]+ | LineEscape+) -> skip

;

// Inside (...) and [...] but not {...}, ignore newlines.

NL : LineTerminator { this.ignoreTokenInsideParens(); }

;

// Multiple-line comments (including  
groovydoc comments)

ML\_COMMENT

```
: /*! .*? */! { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
```

;

// Single-line comments

SL\_COMMENT

```
: /*! ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
```

;

```
// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
    : '#' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand
(LineTerminator '#' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
    : .
;

```

Found in path(s):

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/GroovyLexer.g4

No license file was found, but licenses were detected in source scan.

```
/** JSR-241 Groovy Recognizer.
 *
 * Run 'java Main [-showtree] directory-full-of-groovy-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Contributing authors:
 *     John Mitchell      johnm@non.net
 *     Terence Parr       parrt@magelang.com
 *     John Lilley        jlilley@empathy.com
 *     Scott Stanchfield  thetick@magelang.com
 *     Markus Mohren      mohnen@informatik.rwth-aachen.de
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 *     Reto Kleeb        rkleeb@hsr.ch
 *
 * Version 1.00 December 9, 1997 -- initial release
 * Version 1.01 December 10, 1997
 *     fixed bug in octal def (0..7 not 0..8)
 * Version 1.10 August 1998 (parrt)
 *     added tree construction
 *     fixed definition of WS,comments for mac,pc,unix newlines

```



- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
  - \* Added "shutup" option to turn off last ambig warning.
  - \* Fixed inner class def to allow named class defs as statements
  - \* synchronized requires compound not simple statement
  - \* add [] after builtInType DOT class in primaryExpression
  - \* "const" is reserved but not valid..removed from modifiers
- \* Version 1.12 (Feb 2, 1999)
  - \* Changed LITERAL\_XXX to xxx in tree grammar.
  - \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- \* Version 1.13 (Apr 23, 1999)
  - \* Didn't have (stat)? for else clause in tree parser.
  - \* Didn't gen ASTs for interface extends. Updated tree parser too.
  - \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
  - \* Allowed final/abstract on local classes.
  - \* Removed local interfaces from methods
  - \* Put instanceof precedence where it belongs...in relationalExpr
    - \* It also had expr not type as arg; fixed it.
  - \* Missing ! on SEMI in classBlock
  - \* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  - \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
  - \* Screwed up rule with instanceof in it. :( Fixed.
  - \* Tree parser didn't like (expr).something; fixed.
  - \* Allowed multiple inheritance
    - in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
  - \* Extending an interface built a wacky tree: had extra EXTENDS.
  - \* Tree grammar didn't allow multiple superinterfaces.
  - \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
  - \* ESC lexer rule allowed 399 max not 377 max.
  - \* java.tree.g didn't handle the expression of synchronized statements.
- \* Version 1.18 (August 12, 2001)
  - \* Terence updated to Java 2 Version 1.3 by
    - observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
    - o primary didn't include boolean.class kind of thing
    - o constructor calls parsed explicitly now:
      - see explicitConstructorInvocation
    - o add strictfp modifier
    - o missing objBlock after new expression in tree grammar
    - o

merged local class definition alternatives, moved after declaration

- \* o fixed problem with `ClassName.super.field`
- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float
- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made `Main.java` use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode `charVocabulary` makes code file big, but only
- \* in the bitsets at the end. I need to make ANTLR generate
- \* unicode bitsets more efficiently.

\* Version 1.19 (April 25, 2002)

- \* Terence added in nice fixes by John Pybus concerning floating
- \* constants and problems with `super()` calls. John did a nice
- \* reorg of the primary/postfix expression

stuff to read better

- \* and makes f.g.`super()` parse properly (it was `METHOD_CALL` not
- \* a `SUPER_CTOR_CALL`). Also:
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\*
- \* as it is not backward compatible.

\* Version 1.20 (October 27, 2002)

- \* Terence ended up reorganizing John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., `this(...)` must
- \* be the first statement.

- \* Trinary `?:` operator wasn't working as array name:
- \* `(isBig ? bigDigits : digits)[i];`

- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.

\* Version 1.21 (October 17, 2003)

- \* Fixed lots of problems including:
- \* Ray Waldin: add `typeDefinition` to `interfaceBlock` in `java.tree.g`
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that `(int.class)` was not recognized.
- \* Thorsten van Ellen noticed that `\n` are allowed incorrectly in strings.
- \* TJP fixed `CHAR_LITERAL` analogously.

\* Version 1.21.2 (March, 2003)

- \* Changes by Matt Quail to support generics (as per `JDK1.5/JSR14`)
- \* Notes:

- \* o We only allow the "extends" keyword and not the "implements"
- \* keyword, since that's what JSR14 seems to imply.
- \* o Thanks to Monty Zukowski for his help on the antlr-interest
- \* mail list.
- \* o Thanks to Alan Eliassen for testing the grammar over his
- \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
- \* o Added support for annotations types
- \* o Finished off Matt Quail's generics
- enhancements to support bound type arguments
- \* o Added support for new for statement syntax
- \* o Added support for static import syntax
- \* o Added support for enum types
- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
- \* spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
- \* parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants
- \* and package definitions
- \* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
- \* o Refactored for/"foreach" productions so that original literal "for" literal
- \* is still used but the for sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
- \* and other refactorings
- \* o Fixed typeParameters omission in identPrimary and newStatement
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- \* o Added typeArguments to postfixExpression

```
productions for anonymous inner class super
*   constructor invocation, e.g. new Outer().<String>super()
*   o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
*   o I have taken java.g for Java 1.5 from Michael Studman (1.22.4)
*   and have applied the groovy.diff from java.g (1.22) by John Rose
*   back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
* Version 1.22.4.g.2
*   o mkempff, rkleeb, Dec 2007
*   o fixed various rules so that they call the correct Create Method
*   to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/
```

Found in path(s):

```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
No license file was found, but licenses were detected in source scan.
```

```
# Licensed to the Apache Software Foundation (ASF) under one or more
# contributor license agreements. See the NOTICE file distributed with
# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License. You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
```

```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

Found in path(s):

```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/META-
INF/services/org.codehaus.groovy.transform.ASTTransformation
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* This file is adapted from the Antlr4 Java grammar which has the following license
*
```

```

* Copyright (c) 2013 Terence Parr, Sam Harwell
* All rights reserved.
* [The "BSD licence"]
*
* http://www.opensource.org/licenses/bsd-license.php
*
* Subsequent modifications by the Groovy community have been done under the Apache License v2:
*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the
License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
        private Map metaDataMap = null;

```

```

public GroovyParserRuleContext() {}

public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
    super(parent, invokingStateNumber);
}

@Override
public Map<?, ?> getMetaDataMap() {
    return this.metaDataMap;
}

@Override
public void setMetaDataMap(Map<?, ?> metaDataMap) {
    this.metaDataMap = metaDataMap;
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}

// starting point for parsing a groovy file
compilationUnit

```

```

: nls (packageDeclaration sep)? scriptStatements? EOF
;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration
// Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
  methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration
;

modifier
: classOrInterfaceModifier
| m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
;

modifiersOpt
: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*
;

```

```

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
    NL* /* Use `NL*` here for better performance,
so DON'T replace it with `nls` */
    )?
;

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

classOrInterfaceModifier
: annotation // class or interface
| m=( PUBLIC // class or interface
    | PROTECTED // class or interface
    | PRIVATE // class or interface
    | STATIC // class or interface
    | ABSTRACT // class or interface
    | FINAL // class only -- does not apply to interfaces
    | STRICTFP // class or interface
    | DEFAULT // interface only -- does not apply to classes
    )
;

variableModifier
: annotation
| m=( FINAL
    | DEF
    | VAR
    // Groovy supports declaring local variables as instance/class fields,
    // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
    // e.g. import groovy.transform.*; def a = { @Field public List awe
= [1, 2, 3] }
    // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
    // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
    | PUBLIC
    | PROTECTED
    | PRIVATE
    | STATIC
    | ABSTRACT
    | STRICTFP
    )
;

```



```

variableModifiersOpt
  : (variableModifiers nls)?
  ;

variableModifiers
  : variableModifier (nls variableModifier)*
  ;

typeParameters
  : LT nls typeParameter (COMMA nls typeParameter)* nls GT
  ;

typeParameter
  : className (EXTENDS nls typeBound)?
  ;

typeBound
  : type (BITAND nls type)*
  ;

typeList
  : type (COMMA nls type)*
  ;

/**
 * t 0: class; 1: interface; 2: enum; 3: annotation; 4:
 * trait
 */
classDeclaration
locals[ int t ]
  : ( CLASS { $t = 0; }
    | INTERFACE { $t = 1; }
    | ENUM { $t = 2; }
    | AT INTERFACE { $t = 3; }
    | TRAIT { $t = 4; }
    )
  identifier
  (nls typeParameters)?
  (nls EXTENDS nls scs=typeList)?
  (nls IMPLEMENTS nls is=typeList)?
  nls classBody[$t]
  ;

// t see the comment of classDeclaration
classBody[int t]
  : LBRACE nls
  (

```

```

    /* Only enum can have enum constants */
    { 2 == $t }?
    enumConstants (nls COMMA)? sep?
    |
    )
    (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

memberDeclaration[int t]
: methodDeclaration[0,
$t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */
methodDeclaration[int t, int ct]
: modifiersOpt typeParameters? (returnType[$ct] nls)?
  methodName formalParameters
  (
    DEFAULT nls elementValue
  |
    (nls THROWS nls qualifiedClassNameList)?
    (nls methodBody)?
  )?
;

methodName
: identifier
| stringLiteral

```

```

;

returnType[int ct]
:
  standardType
  | VOID
;

fieldDeclaration
: variableDeclaration[1]
;

variableDeclarators
: variableDeclarator (COMMA nls variableDeclarator)*
;

variableDeclarator
: variableDeclaratorId (nls ASSIGN nls variableInitializer)?
;

variableDeclaratorId
: identifier
;

variableInitializer
: enhancedStatementExpression
;

variableInitializers
: variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
;

emptyDims
: (annotationsOpt LBRACK RBRACK)+
;

emptyDimsOpt
: emptyDims?
;

standardType
options { baseContext = type; }
: annotationsOpt
  (
    primitiveType
  |
    standardClassOrInterfaceType
  )

```

```

    emptyDimsOpt
;

type
: annotationsOpt
  (
    (
      primitiveType
    |
      // !!! Error Alternative !!!
      VOID
    )
  |
    generalClassOrInterfaceType
  )
  emptyDimsOpt
;

classOrInterfaceType
: ( qualifiedClassName
  | qualifiedStandardClassName
  ) typeArguments?
;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

```

```

annotatedQualifiedClassName
  : annotationsOpt qualifiedClassName
  ;

qualifiedClassNameList
  : annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
  ;

formalParameters
  : LPAREN formalParameterList? rparen
  ;

formalParameterList
  : (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
  ;

thisFormalParameter
  : type THIS
  ;

formalParameter
  : variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
  ;

methodBody
  : block
  ;

qualifiedName
  : qualifiedNameElement
  (DOT qualifiedNameElement)*
  ;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
  : identifier
  | DEF
  | IN
  | AS
  | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

```

```

qualifiedClassName
: qualifiedNameElements identifier
;

qualifiedStandardClassName
: qualifiedNameElements className (DOT className)*
;

literal
: IntegerLiteral                #integerLiteralAlt
| FloatingPointLiteral          #floatingPointLiteralAlt
| stringLiteral                 #stringLiteralAlt
| BooleanLiteral                #booleanLiteralAlt
| NullLiteral                   #nullLiteralAlt
;

// GSTRING

gstring
: GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
;

gstringValue
: gstringPath
| closure
;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
: formalParameters

```

```

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
|
variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression
;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

elementValues

```

```

    : elementValuePairs
    | elementValue
    ;

annotationName : qualifiedClassName ;

elementValuePairs
    : elementValuePair (COMMA elementValuePair)*
    ;

elementValuePair
    : elementValuePairName nls ASSIGN nls elementValue
    ;

elementValuePairName
    : identifier
    | keywords
    ;

// TODO verify the potential performance issue
// because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
    : elementValueArrayInitializer
    | annotation
    | expression
    ;

elementValueArrayInitializer
    : LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
    ;

// STATEMENTS / BLOCKS

block
    : LBRACE sep? blockStatementsOpt RBRACE
    ;

blockStatement
    : localVariableDeclaration
    | statement
    ;

localVariableDeclaration
    : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
      variableDeclaration[0]
    ;

/**

```



\* t 0: local variable declaration; 1: field declaration

\*/

variableDeclaration[int t]

: modifiers nls  
  ( type? variableDeclarators  
    | typeNamePairs nls ASSIGN nls variableInitializer  
  )  
|  
  type variableDeclarators  
;

typeNamePairs

: LPAREN typeNamePair (COMMA typeNamePair)\* rparen  
;

typeNamePair

: type? variableDeclaratorId  
;

variableNames

: LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen  
;

conditionalStatement

: ifElseStatement  
| switchStatement  
;

ifElseStatement

: IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?  
;

switchStatement

: SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE  
;

loopStatement

: FOR LPAREN forControl rparen nls statement #forStmtAlt  
| WHILE expressionInPar nls statement #whileStmtAlt  
| DO nls statement nls WHILE expressionInPar #doWhileStmtAlt  
;

continueStatement

: CONTINUE  
  identifier?  
;

breakStatement

```

: BREAK
  identifier?
;

tryCatchStatement
: TRY resources? nls block
  (nls catchClause)*
  (nls finallyBlock)?
;

assertStatement
: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement
: block #blockStmtAlt
| conditionalStatement #conditionalStmtAlt
| loopStatement #loopStmtAlt
| tryCatchStatement #tryCatchStmtAlt
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt
| RETURN expression? #returnStmtAlt
| THROW expression #throwStmtAlt
| breakStatement #breakStmtAlt
| continueStatement #continueStmtAlt
| identifier COLON nls statement #labeledStmtAlt
| assertStatement #assertStmtAlt
| localVariableDeclaration #localVariableDeclarationStmtAlt
| statementExpression #expressionStmtAlt
| SEMI #emptyStmtAlt
;

catchClause
: CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
;

catchType
: qualifiedClassName
(BITOR qualifiedClassName)*
;

finallyBlock
: FINALLY nls block
;

resources
: LPAREN nls resourceList sep? rparen
;

```

```

resourceList
  : resource (sep resource)*
  ;

resource
  : localVariableDeclaration
  | expression
  ;

/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
switchBlockStatementGroup
  : switchLabel (nls switchLabel)* nls blockStatements
  ;

switchLabel
  : CASE expression COLON
  | DEFAULT COLON
  ;

forControl
  : enhancedForControl
  | classicalForControl
  ;

enhancedForControl
  : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
  : forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  : localVariableDeclaration
  | expressionList[false]
  ;

forUpdate
  : expressionList[false]
  ;

// EXPRESSIONS

```

```

castParExpression
:
LPAREN type rparen
;

parExpression
: expressionInPar
;

expressionInPar
: LPAREN enhancedStatementExpression rparen
;

expressionList[boolean canSpread]
: expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
;

expressionListElement[boolean canSpread]
: MUL? expression
;

enhancedStatementExpression
: statementExpression
| standardLambdaExpression
;

statementExpression
: commandExpression          #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to resolve the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression          #castExprAlt

// qualified names, array expressions, method invocation, post inc/dec
| postfixExpression
  #postfixExprAlt

// ~(BNOT)! (LNOT) (level 1)
| (BITNOT | NOT) nls expression          #unaryNotExprAlt

// math power operator (**) (level 2)
| left=expression op=POWER nls right=expression          #powerExprAlt

```

```

// ++(prefix)--(prefix)/(unary)/(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression #multiplicativeExprAlt

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  (
    ( dlOp=LT LT
      | tgOp=GT GT GT
      | dgOp=GT GT
    )
    | rangeOp=( RANGE_INCLUSIVE
      | RANGE_EXCLUSIVE
    )
  ) nls
right=expression #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression #relationalExprAlt

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  ) nls
right=expression #equalityExprAlt

// regex find and match (=~ and ==~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...

// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression #regexExprAlt

// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression #andExprAlt

// exclusive or (^) (level 10)
| left=expression nls op=XOR nls right=expression #exclusiveOrExprAlt

```

```

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression                #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression                 #logicalAndExprAlt

// logical or (||) (level 13)
| left=expression nls op=OR nls right=expression                  #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right>
con=expression nls
  ( QUESTION nls tb=expression nls COLON nls
  | ELVIS nls
  )
  fb=expression  #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
| <assoc=right> left=expression nls
  op=( ASSIGN
  | ADD_ASSIGN
  | SUB_ASSIGN
  | MUL_ASSIGN
  | DIV_ASSIGN
  | AND_ASSIGN
  | OR_ASSIGN
  | XOR_ASSIGN
  | RSHIFT_ASSIGN
  | URSHIFT_ASSIGN
  | LSHIFT_ASSIGN
  | MOD_ASSIGN
  | POWER_ASSIGN
  | ELVIS_ASSIGN
  ) nls
  enhancedStatementExpression                                     #assignmentExprAlt
;

castOperandExpression
options { baseContext = expression; }
: castParExpression castOperandExpression                        #castExprAlt

| postfixExpression   #postfixExprAlt

// ~(BNOT)! (LNOT)

```

```

| (BITNOT | NOT) nls castOperandExpression                               #unaryNotExprAlt

// ++(prefix)--(prefix)/(unary)/(unary)
| op=(INC | DEC | ADD | SUB) castOperandExpression                     #unaryAddExprAlt
;

```

commandExpression

```

: expression
(
  { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
  argumentList
|
  /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;

```

commandArgument

```

: commandPrimary
// what follows is either a normal argument, parens,
// an appended block, an index operation, or nothing
// parens (a b already processed):
//   a b c() d e -> a(b).c().d(e)
//   a b c()() d e -> a(b).c().call().d(e)
// index (a b already processed):
//   a b c[x] d e -> a(b).c[x].d(e)
//   a b c[x][y] d e -> a(b).c[x][y].d(e)
// block (a b already processed):
//   a b c {x} d e -> a(b).c({x}).d(e)
//
// parens/block completes method call
// index makes method call to property get with index
//
( pathElement+
| argumentList
)?
;

```

/\*\*

- \* A "path expression" is a name or other primary, possibly qualified by various
- \* forms of dot, and/or
- followed by various kinds of brackets.
- \* It can be used for value or assigned to, or else further qualified, indexed, or called.
- \* It is called a "path" because it looks like a linear path through a data structure.
- \* Examples: x.y, x?.y, x\*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
- \* (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
- \* General expressions are built up from path expressions, using operators like '+' and '='.

```

*
* t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
* 6: non-static inner class creator
*/
pathExpression returns [int t]
: (
    primary
    |
    // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
    { _input.LT(2).getType() == DOT }?
    STATIC
) (pathElement { $t = $pathElement.t; })*
;

pathElement returns [int t]
: nls

(
    // AT: foo.@bar selects the field (or attribute), not property
    (
        ( DOT // The all-powerful dot.
        | SPREAD_DOT // Spread operator: x*.y === x?.collect{it.y}
        | SAFE_DOT // Optional-null operator: x?.y === (x==null)?null:x.y
        | SAFE_CHAIN_DOT // Optional-null chain operator: x??y.z === x?.y?.z
        ) nls (AT | nonWildcardTypeArguments)?
    |
        METHOD_POINTER nls // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
    |
        METHOD_REFERENCE nls // Method reference: System.out::println
    )
    namePart
    { $t = 1; }
    |
        DOT nls NEW creator[1]
        { $t = 6; }

    // Can always append a block, as foo{bar}
    | closureOrLambdaExpression
        { $t = 3; }
    )

    | arguments

    { $t = 2; }

    // Element selection is always an option, too.

```



```

// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
| indexPropertyArgs
  { $t = 4; }

| namedPropertyArgs
  { $t = 5; }
;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
:
  ( identifier

  // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
  | stringLiteral

  | dynamicMemberName

  /* just a PROPOSAL, which has not been implemented yet!
  // PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
  // Definition: a.{foo} === {with(a) {foo}}
  // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
  | block
  */

  // let's allow common keywords as property names
  |
  keywords
  )
;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
: parExpression
| gstring
;

/** An expression may be followed by [...].
 * Unlike Java, these brackets may contain a general argument list,
 * which is passed to the array element operator, which can make of it what it wants.
 * The brackets may also be empty, as in T[]. This is how Groovy names array types.
 */

```

```

indexPropertyArgs
: QUESTION? LBSTACK expressionList[true]? RBRACK
;

namedPropertyArgs
: QUESTION? LBSTACK (namedPropertyArgList | COLON) RBRACK
;

primary
:
  // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
  HashMap<String, Integer>::new
  // Though this is not a graceful solution, it is much faster than replacing `builtInType`
  with `type`
  identifier typeArguments?                                #identifierPrmrAlt
| literal  #literalPrmrAlt
| gstring  #gstringPrmrAlt
| NEW nls creator[0]                                       #newPrmrAlt
| THIS   #thisPrmrAlt
| SUPER  #superPrmrAlt
| parExpression   #parenPrmrAlt
| closureOrLambdaExpression                               #closureOrLambdaExpressionPrmrAlt
| list   #listPrmrAlt
| map  #mapPrmrAlt
| builtInType   #builtInTypePrmrAlt
;

namedPropertyArgPrimary
options { baseContext = primary; }
: identifier   #identifierPrmrAlt
| literal  #literalPrmrAlt
| gstring  #gstringPrmrAlt
| parExpression   #parenPrmrAlt
;

namedArgPrimary
options { baseContext = primary; }
: identifier   #identifierPrmrAlt
| literal  #literalPrmrAlt
|
gstring  #gstringPrmrAlt
;

commandPrimary
options { baseContext = primary; }
: identifier   #identifierPrmrAlt
| literal  #literalPrmrAlt
| gstring  #gstringPrmrAlt

```

```

;

list
: LBRACK expressionList[true]? COMMA? RBRACK
;

map
: LBRACK
  ( mapEntryList COMMA?
  | COLON
  )
  RBRACK
;

mapEntryList
: mapEntry (COMMA mapEntry)*
;

namedPropertyArgList
options { baseContext = mapEntryList; }
: namedPropertyArg (COMMA namedPropertyArg)*
;

mapEntry
: mapEntryLabel COLON nls expression
| MUL COLON nls expression
;

namedPropertyArg
options { baseContext = mapEntry; }
: namedPropertyArgLabel
COLON nls expression
| MUL COLON nls expression
;

namedArg
options { baseContext = mapEntry; }
: namedArgLabel COLON nls expression
| MUL COLON nls expression
;

mapEntryLabel
: keywords
| primary
;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }

```

```

: keywords
| namedPropertyArgPrimary
;

namedArgLabel
options { baseContext = mapEntryLabel; }
: keywords
| namedArgPrimary
;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
: createdName
  ( nls arguments anonymousInnerClassDeclaration[0]?
  | dim+ (nls arrayInitializer)?
  )
;

dim
: annotationsOpt LBRACK expression? RBRACK
;

arrayInitializer
: LBRACE nls (variableInitializers nls)? RBRACE
;

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
: classBody[0]
;

createdName
: annotationsOpt

( primitiveType
  | qualifiedClassName typeArgumentsOrDiamond?
  )
;

nonWildcardTypeArguments
: LT nls typeList nls GT
;

typeArgumentsOrDiamond

```

```

: LT GT
| typeArguments
;

arguments
: LPAREN enhancedArgumentListInPar? COMMA? rparen
;

argumentList
options { baseContext = enhancedArgumentListInPar; }
: firstArgumentListElement
  ( COMMA nls
    argumentListElement
  )*
;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
: firstEnhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

enhancedArgumentListInPar
: enhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement; }
}
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression

```

```
| namedArg
;

enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;

stringLiteral
: StringLiteral
;

className
: CapitalizedIdentifier
;

identifier
: Identifier
| CapitalizedIdentifier
| VAR
| IN
// | DEF
| TRAIT
| AS
;

builtInType
: BuiltInPrimitiveType
| VOID
;

keywords
: ABSTRACT
| AS
| ASSERT
| BREAK
| CASE
| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
```

| FINAL  
| FINALLY  
| FOR  
| GOTO  
| IF  
| IMPLEMENTS  
| IMPORT  
| IN  
| INSTANCEOF  
| INTERFACE  
| NATIVE  
| NEW  
| PACKAGE  
| RETURN  
| STATIC  
| STRICTFP  
| SUPER  
| SWITCH  
| SYNCHRONIZED  
| THIS  
| THROW  
| THROWS  
| TRANSIENT  
| TRAIT  
| THREADSAFE  
| TRY  
| VAR  
| VOLATILE  
| WHILE  
  
| NullLiteral  
| BooleanLiteral  
  
| BuiltInPrimitiveType  
| VOID  
  
| PUBLIC  
| PROTECTED  
| PRIVATE  
;  
  
rparen  
: RPAREN  
;  
  
nls  
: NL\*  
;

sep : (NL | SEMI)+

;

Found in path(s):

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/GroovyParser.g4

No license file was found, but licenses were detected in source scan.

/\*\* Java 1.5 Recognizer

\*

\* Run 'java Main [-showtree] directory-full-of-java-files'

\*

\* [The -showtree option pops up a Swing frame that shows

\* the AST constructed from the parser.]

\*

\* Run 'java Main <directory full of java files>'

\*

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\*

\* Version 1.00 December 9, 1997 -- initial release

\* Version 1.01 December 10, 1997

\* fixed bug in octal def (0..7 not 0..8)

\* Version 1.10 August 1998 (parrt)

\* added tree construction

\* fixed definition of WS,comments for mac,pc,unix newlines

\* added unary plus

\* Version 1.11 (Nov 20, 1998)

\* Added "shutup" option to turn off last ambig warning.

\* Fixed inner class def to allow named class defs as statements

\* synchronized requires compound not simple statement

\* add [] after builtInType DOT class in primaryExpression

\* "const" is reserved but not valid..removed from modifiers

\* Version 1.12 (Feb 2, 1999)

\* Changed LITERAL\_XXX to xxx in tree grammar.

\* Updated java.g to use tokens {...} now for 2.6.0 (new feature).

\*

\* Version 1.13 (Apr 23, 1999)

\* Didn't have (stat)? for else clause in tree parser.



- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly  
(+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized  
statements.
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by  
observing/combining work of Allan Jacobs and Steve  
Messick. Handles 1.3 src. Summary:
- \* o primary didn't include boolean.class kind of thing
- \* o constructor calls parsed explicitly now:  
see explicitConstructorInvocation
- \* o add strictfp  
modifier
- \* o missing objBlock after new expression in tree grammar
- \* o merged local class definition alternatives, moved after declaration
- \* o fixed problem with ClassName.super.field
- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float
- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made Main.java use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode charVocabulay makes code file big, but only  
in the bitsets at the end. I need to make ANTLR generate  
unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating  
constants and problems with super() calls. John did a nice  
reorg of the primary/postfix expression stuff to read better

- \* and makes f.g.super() parse properly (it was METHOD\_CALL not a SUPER\_CTOR\_CALL). Also:
- \*
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\* as it is not backward compatible.
- \*
- \* Version 1.20 (October 27, 2002)
- \*
- \* Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must be the first statement.
- \*
- \* Ternary ?: operator wasn't working as array name: (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4, and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.
- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
- \* o We only allow the "extends" keyword and not the "implements" keyword, since that's what JSR14 seems to imply.
- \* o Thanks to Monty Zukowski for his help on the antlr-interest mail list.
- \* o Thanks to Alan Eliassen for testing the grammar over his Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
- \* o Added support for annotations types
- \* o Finished off Matt Quail's generics enhancements to support bound type arguments
- \* o Added support for new for statement syntax
- \* o Added support for static import syntax
- \* o Added support for enum types

- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail  
for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for  
spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type  
parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants  
and package definitions
- \* o Fixed problems when parsing `if ((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
- \* o Refactored `for/"foreach"` productions so that original literal `"for"` literal  
is still used but the `for` sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael  
Stahl; clean up of tabs/spaces  
and other refactorings
- \* o Fixed typeParameters omission in `identPrimary` and `newStatement`
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted `enum/assert` keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored `typeDefinition` production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added `typeArguments` to `explicitConstructorInvocation`, e.g. `new <String>MyParameterised()`
- \* o Added `typeArguments` to `postfixExpression` productions for anonymous inner class `super`  
constructor invocation, e.g. `new Outer().<String>super()`
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.j.1
- \* Changes by Jeremy Rayner to support java2groovy tool
- \* o I have taken `java.g` for Java 1.5 from Michael Studman (1.22.4)  
and have made some changes to enable use by java2groovy tool (Jan 2007)
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN
- \*/

Found in path(s):

\* `/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java`

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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/xml/package.html
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/package.html
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/package.html
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/inspect/package.html
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/package.html
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/vmplugin/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/time/package.html
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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/org/codehaus/groovy/classgen/asm/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/package.html
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/grape/defaultGrapeConfig.xml
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/overview.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/syntax/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/stmt/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/overviewj.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v5/package.html
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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/package.html
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/package.html

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```
# Format: one extension on each line without the leading ".*"
# Listed below are default groovy source file extensions.
```

```
# NOTE: This implementation
# of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy
```

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```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/META-
INF/groovy/org.codehaus.groovy.source.Extensions
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```
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
```

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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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```
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java  
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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java  
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/SourceAwareCustomizer.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/MapEntry.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/PropertyAccessInterceptor.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/shell/util/Logger.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayPutAtMetaMethod.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodCall.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/EnumHelper.java
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- /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/AdaptingMetaClass.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/ReadOnlyPropertyException.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/AssertStatement.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesClosureWriter.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/metaclass/Realm.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java



\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/parser/antlr4/ModifierManager.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayPutAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/security/GroovyCodeSourcePermission.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MethodSelectionException.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ImmutableASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaClassRegistry.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ThreadInterruptibleASTTransformation.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/plugin/DefaultRunners.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/BytecodeDumper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/groovy/util/FactoryBuilderSupport.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/IteratorBufferedIterator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/util/concurrent/LazyInitializable.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/ByteWrapper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/ResourceGroovyMethods.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/cli/TypedOption.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/SignatureCodecVersion1.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/PropertyOptions.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/NewifyASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/builder/InitializerStrategy.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/EncodingGroovyMethods.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/EmptyRange.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/cli/OptionField.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticInvocationWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/groovydoc/Groovydoc.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/ClosureExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/CompileDynamicProcessor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v7/TypeTransformers.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/ast/EnumConstantClassNode.java  
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Log4j.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/ast/decompiled/LazyFieldNode.java  
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jar/org/codehaus/groovy/control/customizers/builder/ASTTransformationCustomizerFactory.groovy  
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jar/org/codehaus/groovy/ast/stmt/BlockStatement.java  
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jar/org/codehaus/groovy/vmplugin/v7/MethodHandleWrapper.java  
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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/classgen/VerifierCodeVisitor.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/groovy/util/PermutationGenerator.java  
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/antlr/java/Groovifier.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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jar/org/codehaus/groovy/ast/expr/MethodCallExpression.java  
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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jar/org/codehaus/groovy/ast/expr/UnaryPlusExpression.java  
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/builder/Builder.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/IntWrapper.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/GeneratedClosure.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/sc/IndyStaticTypesMultiTypeDispatcher.java  
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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/FastArray.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/SpreadListEvaluatingException.java  
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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ConfigSlurper.groovy  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/AnnotatedNode.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/StaticMetaClassSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/ObjectHolder.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/MethodCallTransformation.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/MethodInvocationTrap.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-



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jar/org/codehaus/groovy/tools/javac/JavaAwareResolveVisitor.java
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jar/org/codehaus/groovy/transform/LazyASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/ProxyMetaClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/AbstractASTTransformUtil.java
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/org/codehaus/groovy/control/MultipleCompilationErrorsException.java
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/OwnedMetaClass.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MissingFieldException.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/AbstractASTTransformation.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/tools/GrapeUtil.java
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jar/org/codehaus/groovy/control/customizers/SecureASTCustomizer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/TailRecursive.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/AstHelper.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/Main.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/ClosureListExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/beans/Vetoable.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/groovy/lang/ClosureInvokingMethod.java
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/io/FileType.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Log.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/SourceExtensionHandler.java

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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/TransformMetaMethod.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/ArgumentListExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/MixinInMetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaBeanProperty.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/AbstractFactory.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/TrampolineClosure.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/DelegationMetadata.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GString.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerInvocationException.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/SourceBuffer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticPropertyAccessHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/io/StringBuilderWriter.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/CompileStatic.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GroovyResourceLoader.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/SuperCallTraitTransformer.java

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/InheritConstructors.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/beans/Bindable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/SingleSignatureClosureHint.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MethodMetaProperty.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/builder/DefaultStrategy.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/ClosureParams.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Commons.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GroovyInterceptable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/AutoFinalASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/NullCheck.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/ObjectRange.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/NodeList.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/SourceTextNotAvailableException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyProcessor.java

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ExternalizeVerifierASTTransformation.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/StackTraceUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/GroovyObjectWrapper.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryFloatExpressionHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/RangeInfo.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/PositionInfo.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/CompareIdentityExpression.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ReflectionUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavaStubGenerator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/CallSiteClassLoader.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/ast/tools/ClassNodeUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticCompilationMopWriter.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassCodeVisitorSupport.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/MixinASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/CSTNode.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/NamedArgumentListExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple14.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionMultiTypeDispatcher.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayGetAtMetaMethod.java
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jar/groovy/transform/ImmutableBase.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/stmt/CaseStatement.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/MemberSignatureParser.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/ProcessingUnit.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/VariableExpressionTransformer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/syntax/Reduction.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MetaMethodIndex.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/io/AbstractReaderSource.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ListHashMap.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/GroovyScriptEngine.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/Annotations.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/FormalParameterParser.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/LazyMethodNode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/beans/DefaultPropertyWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/memoize/ValueConvertible.java
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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/AntlrParserPluginFactory.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/tools/BeanUtils.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/VariableExpressionTransformer.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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jar/groovy/beans/DefaultPropertyReader.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 jar/org/codehaus/groovy/ast/stmt/SwitchStatement.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 jar/org/codehaus/groovy/antlr/UnicodeLexerSharedInputState.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/NonEmptySequence.java  
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 jar/org/codehaus/groovy/ast/stmt/ForStatement.java  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/GroovyBugError.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/beans/VetoableASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/lang/DeprecationException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/ShortWrapper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Slf4j.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/WriterController.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v9/Java9.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/DefaultGroovyMethods.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/Verifier.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/ClassNode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/io/StringReaderSource.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/util/Arrays.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleRegistry.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/WithWriteLock.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ManagedConcurrentValueMap.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayPutAtMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Immutable.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/SpreadMap.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/VariableSlotLoader.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/shell/util/MessageSource.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/io/InputStreamReaderSource.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Generated.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/apache/groovy/parser/antlr4/TryWithResourcesASTTransformation.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Trait.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/LambdaWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/GroovyClassValueFactory.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/xml/QName.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/StaticVerifier.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/util/SystemUtil.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/ArrayCachedClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/TypeCheckingContext.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PojoMetaMethodSite.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/io/GroovyPrintWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple2.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/parser/antlr4/SemanticPredicates.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/CacheAccessControlException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/internal/util/Function.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/CharSequenceReader.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/BigIntegerCachedClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayPutAtMetaMethod.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/ReflectionMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/GroovyCategorySupport.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleScanner.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Newify.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/FieldExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java
*

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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/DefaultMetaClassInfo.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/SpreadExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/ComplexKeyHashMap.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/StaticTypesTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/asm/BinaryBooleanExpressionHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple11.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple4.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/metaclass/MetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/syntax/TokenUtil.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/ImportNode.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/lang/GroovyRuntimeException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Grab.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/stc/ClosureSignatureHint.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/vmplugin/v8/Java8.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaMethodSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/internal/util/Supplier.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/LazyReference.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Undefined.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/antlr/treewalker/NodePrinter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/stmt/ThrowStatement.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/wrappers/PojoWrapper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GroovyShell.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/NodeBuilder.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/OrderBy.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/PogoInterceptableSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/AsmClassGenerator.java  
 \*

/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/tools/LoaderConfiguration.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/customizers/ASTTransformationCustomizer.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/lang/DelegatingMetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/reflection/CachedConstructor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/options/LegacyHashMapPropertyHandler.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/antlr/treewalker/SourcePrinter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/asm/util/LoggableClassVisitor.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/syntax/ReadException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaProperty.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/MapEntryExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple16.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/wrappers/FloatWrapper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/grape/GrapeEngine.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/stc/SignatureCodec.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/GroovyCollections.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/lang/IllegalPropertyAccessException.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/ConstantExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ObjectGraphBuilder.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/tools/javac/JavaCompilerFactory.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/ElvisOperatorExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/parser/antlr4/GroovySyntaxError.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/parser/antlr4/GroovyLangLexer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/ResolveVisitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/syntax/TokenMismatchException.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Buildable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/runtime/memoize/Memoize.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryIntExpressionHelper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/TernaryToIfStatementConverter.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMetaMethod.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/CompileDynamic.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/ast/tools/AnnotatedNodeUtils.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/CachedMethod.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/ClassGenerator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/customizers/builder/ImportCustomizerFactory.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/AssertionWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/GroovyClassValue.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/genArrayAccess.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/StaticTypesMarker.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/ReverseListIterator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/MetaExpandProperty.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/AnnotationCollectorMode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/NamedDelegate.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/RootLoader.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/CallSiteArray.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingVisitor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/Compiler.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/ConstructorNode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Sequence.java
*

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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/reflection/SunClassLoader.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/typehandling/NumberMathModificationInfo.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/SingleKeyHashMap.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/tools/gse/DependencyTracker.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/vmplugin/v7/IndyArrayAccess.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/BytecodeSequence.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/ListWithDefault.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/GStringExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/beans/PropertyAccessor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/vmplugin/v8/IndyMath.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/vmplugin/v8/TypeTransformers.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/memoize/ConcurrentCommonCache.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Synchronized.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Internal.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/wrappers/DoubleWrapper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/internal/util/UnicodeConst.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/MetaClassSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/AttributeExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/tailrec/InWhileLoopWrapper.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MapWithDefault.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/EqualsAndHashCode.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Factory.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/runtime/callsite/PlainObjectMetaMethodSite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/VMPlugin.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/InvocationWriter.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Groovydoc.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/IndexedProperty.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/FinalVariableAnalyzer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/VariableScope.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/MethodPointerExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/ast/tools/MethodNodeUtils.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/GenericsType.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v8/IndyInterface.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ListBufferedIterator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/GroovyExceptionInterface.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v7/IndyInterface.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/HashCodeHelper.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/memoize/ConcurrentSoftCache.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoFieldSite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/RecursivenessTester.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/HasCleanup.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/ArrayTypeUtils.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingSupport.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/ast/tools/VisibilityUtils.java
*

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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/FloatArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/ReleaseInfo.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/io/LineColumnReader.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/WithReadLock.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Eval.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 jar/org/codehaus/groovy/runtime/ConvertedClosure.java  
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 jar/org/codehaus/groovy/classgen/asm/BytecodeHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/MethodRankHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/time/TimeDuration.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/parser/antlr4/util/PositionConfigureUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 jar/org/codehaus/groovy/vmplugin/v8/CacheableCallSite.java  
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 jar/org/codehaus/groovy/ast/GroovyCodeVisitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/stc/FromAbstractTypeMethods.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/Janitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/customizers/CompilationCustomizer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/FlushingStreamWriter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/MapConstructorASTTransformation.java  
 \*

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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple0.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/VariableExpressionReplacer.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/BigDecimalCachedClass.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GrabResolver.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/time/DatumDependentDuration.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/ReturnAdder.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/Expression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/stmt/Statement.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/StringGroovyMethods.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/AsmDecompiler.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ScriptException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/ExtensionMethodNode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/DummyCallSite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/messages/WarningMessage.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/ASTTransformationsContext.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/AbstractCallSite.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/DefaultTypeCheckingExtension.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/MapExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ObservableMap.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/plugin/GroovyRunnerRegistry.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/beans/DefaultPropertyAccessor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/FirstParam.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/BuilderASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/SelfType.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/BigDecimalMath.java
*

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/opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/apache/groovy/parser/antlr4/AbstractParser.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/DummyClassGenerator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMultiply.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/sc/transformers/BinaryExpressionTransformer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/stc/FromString.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/BooleanClosureWrapper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/TimedInterrupt.groovy  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/FloatArrayIterator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/io/URLReaderSource.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/sc/transformers/ClosureExpressionTransformer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/LockableObject.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/stc/ClosureSignatureConflictResolver.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/CodeVisitorSupport.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/options/PropertyHandler.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/SourceURIASTTransformation.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
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 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/LogASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/DoubleArrayIterable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/NewStaticMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/reflection/stdclasses/LongCachedClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/TupleExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/PogoGetPropertySite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/IOGroovyMethods.java

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/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Writable.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ConditionalInterruptibleASTTransformation.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Canonical.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/stmt/CatchStatement.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/EnumCompletionVisitor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/ClosureException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/ProcessGroovyMethods.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ConfigObject.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoPropertySite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/ImmutableOptions.java
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*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Node.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/vmplugin/v9/ClassFinder.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/Utilities.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Sortable.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/TypeCheckingMode.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/messages/ExceptionMessage.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/AntlrASTProcessSnippets.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
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* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/stc/AbstractExtensionMethodCache.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/util/FileNameByRegexFinder.groovy

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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ReflectionCache.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ModifierNode.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/cli/CliBuilderException.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ToStringASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/AtnManager.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/NamedParam.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/Antlr4PluginFactory.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple5.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaObjectProtocol.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MissingClassException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/TupleConstructor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/MapEntryOrKeyValue.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NullObject.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java  
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 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/SyntaxErrorReportable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ParameterTypes.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/CachedField.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Grapes.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ShortArrayIterator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/MixinNode.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaClassImpl.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ConversionHandler.java

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/RangeExpressionTransformer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/TransformingCodeVisitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/BigIntegerMath.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavacCompilerFactory.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/IndyGuardsFiltersAndSignatures.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/XStreamUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/Java2GroovyMain.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/GroovyTypeCheckingExtensionSupport.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Log4j2.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/time/Duration.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/LexerAtnManager.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/io/GroovyPrintStream.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/Token.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/AbstractTypeCheckingExtension.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/MethodCallExpressionTransformer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/options/ImmutablePropertyHandler.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/IndyArrayAccess.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/GroovyStarter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/TracingInterceptor.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/WideningCategories.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/TernaryExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/grape/Grape.java

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/time/TimeDatumDependentDuration.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/util/CharArrayIterator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/tools/GrapeMain.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/OptimizerVisitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/tools/javac/JavaCompiler.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/CharsetToolkit.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/tools/GeneralUtils.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/trait/TraitComposer.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/BytecodeInstruction.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/GroovyClassVisitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/transform/AutoCloneStyle.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/typehandling/DefaultTypeTransformation.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/callsite/PogoMetaMethodSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/ast/expr/RangeExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/control/io/FileReaderSource.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/GroovyASTTransformation.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/vmplugin/v8/TypeHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/groovy/lang/StringWriterIOException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/transform/AnnotationCollectorTransform.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
 jar/org/codehaus/groovy/antlr/SourceInfo.java

\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/SourceText.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/MethodClosure.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerHelper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ObservableList.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/EnumTypeCheckingExtension.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/PluginDefaultGroovyMethods.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/CommonCache.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/AsmReferenceResolver.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MissingMethodException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/cli/Option.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/util/ReevaluatingReference.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/ConfigurationException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/VariableExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/inspect/Inspector.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/LongMath.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/codehaus/groovy/transform/tailrec/TailRecursiveASTTransformation.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/GroovyClassLoader.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/PropertyExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ArrayIterable.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/ASTParserException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/URLStreams.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/LabelVerifier.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/ThreadInterrupt.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/InnerClassCompletionVisitor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/control/customizers/DelegatingCustomizer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/FileTreeBuilder.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Delegate.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/ui/GroovyMain.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/NodeMetaDataHandler.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/tools/StringHelper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/AnnotationVisitor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/AutoClone.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/NumberRange.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-

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jar/org/apache/groovy/parser/antlr4/GroovydocManager.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/grape/GrapeIvy.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/antlr/AntlrASTProcessor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/PostfixExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/ast/tools/ConstructorNodeUtils.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/genArrayUtil.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GrabExclude.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/ClassGeneratorException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/reflection/ClassLoaderForClassArtifacts.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/BooleanWrapper.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/util/ArrayIterator.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Reference.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/GeneratedGroovyProxy.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Expando.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/tools/GenericsUtils.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/OperandStack.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ResourceException.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Category.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/ErrorCollecting.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java

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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/RuntimeParserException.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodCallerMultiAdapter.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/DescriptiveErrorStrategy.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DateGroovyMethods.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/ThirdParam.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GroovyCallable.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/CacheableCallSite.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/SimpleType.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ProxyGeneratorAdapter.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/AutoExternalize.groovy  
 \*  
 /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple13.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ASTNode.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodReferenceExpression.java  
 \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

```
jar/org/codehaus/groovy/transform/FieldASTTransformation.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/TypeChecked.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/lang/MetaArrayLengthProperty.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/ast/Variable.java
*
/opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ObservableSet.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/groovy/transform/MapConstructor.java
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/transform/trait/TraitHelpersTuple.java
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```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java
```

## 1.626 groovy-json 3.0.8

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#
org.apache.groovy.json.DefaultFastStringServiceFactory
```

Found in path(s):

```
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/META-INF/services/org.apache.groovy.json.FastStringServiceFactory
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Found in path(s):

```
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/BaseJsonParser.java
*
/opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonException.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMap.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CacheType.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonParser.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Value.java
```

\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueCollectioner.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/StreamingJsonBuilder.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharacterSource.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharScanner.java  
 \*  
 /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Cache.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/NumberValue.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringService.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharBuf.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/IO.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Exceptions.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/DefaultJsonGenerator.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java  
 \*  
 /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/SimpleCache.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringServiceFactory.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonToken.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/FastStringUtils.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringService.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonOutput.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonBuilder.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java  
 \*  
 /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonStringDecoder.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ByteScanner.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Type.java  
 \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java

```

* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/groovy/json/JsonSlurperClassic.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurper.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/CharSequenceValue.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/ValueMapImpl.java
*
/opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/JsonFastParser.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/ValueList.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/LazyMap.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonLexer.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/ArrayUtils.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonTokenType.java
*
/opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonParserType.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/MapItemValue.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/Sys.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/Dates.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonDelegate.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonGenerator.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/groovy/json/StringEscapeUtils.java
* /opt/cola/permits/1200735282_1630953841.57/0/groovy-json-3-0-8-sources-
jar/org/apache/groovy/json/internal/Chr.java

```

# 1.627 are-we-there-yet 1.1.7

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## 1.665 remove-bom-stream 1.2.0

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# 1.668 semver-greatest-satisfied-range 1.1.0

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## 1.669 stream-exhaust 1.0.2

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## 1.670 sver-compat 1.5.0

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## 1.672 unicode-canonical-property-names-ecmascript 2.0.0

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## 1.673 unicode-match-property-ecmascript

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# 1.674 undertaker-registry 1.0.1

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 */
```

Found in path(s):

```
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/ipv4/IPv4AddressTrie.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/util/AddressTrieOps.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/ipv6/IPv6AddressTrie.java
*
 /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/util/BinaryTreeNode.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/util/AddressTrieMap.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/ipv6/IPv6AddressAssociativeTrie.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/mac/MACAddressTrie.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/TreeOps.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/util/AddressTrieSet.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/Partition.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/mac/MACAddressAssociativeTrie.java
*
```



/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressAssociativeTrie.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/AbstractTree.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/AddressTrie.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/AssociativeAddressTrie.java

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Found in path(s):

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressStringParameters.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/large/package-info.java

\*

/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressNetwork.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressItem.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/IPAddressJoinedSegments.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/AddressCreator.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/AddressSegmentParams.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressStringParameters.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/sql/MySQLTranslator.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressString.java

\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-

```

jar/inet/ipaddr/format/util/sql/SQLStringMatcher.java
*
/opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/validate/Validator.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressSegment.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/AddressStringParameters.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
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* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
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* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddress.java
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* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4Address.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressComponent.java
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* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
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*
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* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/standard/IPAddressBitsDivision.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/package-
info.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/AddressStringException.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/MACAddressString.java
*

```

/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressSegment.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/ParsedAddressCreator.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv6/IPv6Address.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/mac/MACAddressNetwork.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/IPAddressProvider.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/HostIdentifierException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressSegment.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/IPAddressDivisionSeries.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv6/IPv6AddressStringParameters.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/HostNameParameters.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/Address.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/SizeMismatchException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/AddressParseData.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressComparator.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressValueException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/string/AddressStringDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/IPAddressDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/IPAddressPartStringCollection.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressConverter.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/IPAddressStringWriter.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/mac/MACAddressSection.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/MACAddressStringParameters.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/AddressDivisionGrouping.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/mac/MACAddress.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressNetwork.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressDivisionSeries.java  
\*

/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressSection.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/PrefixLenException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/HostName.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/AddressDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/IPAddressPartStringSubCollection.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4JoinedSegments.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressItemRange.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/IPAddressPartConfiguredString.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressDivisionBase.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/HostIdentifierStringValidator.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/InconsistentPrefixException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/large/IPAddressLargeDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressPositionException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/HostNameException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/AddressBitsDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/mac/MACAddressSegment.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressDivisionGroupingBase.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/sql/IPAddressSQLTranslator.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/standard/IPAddressDivisionGrouping.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressSegmentSeries.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/ParsedHost.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressSegmentSeries.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/IPAddressPartStringCollectionBase.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IncompatibleAddressException.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/HostIdentifierString.java

```
*
/opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/AddressNetwork.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/validate/MACAddressProvider.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-jar/module-info.java
* /opt/cola/permits/1209325125_1633047761.0/0/ipaddress-5-3-3-sources-
jar/inet/ipaddr/format/util/AddressDivisionWriter.java
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\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/package-info.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/ParsedAddressGrouping.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/AddressGenericDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/package-info.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/package-info.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/package-info.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/ParsedMACAddress.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv4/IPv4AddressSeqRange.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/util/sql/package-info.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/validate/ParsedIPAddress.java  
\*  
/opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/format/IPAddressGenericDivision.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv6/IPv6AddressSeqRange.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/IPAddressSeqRange.java  
\* /opt/cola/permits/1209325125\_1633047761.0/0/ipaddress-5-3-3-sources-jar/inet/ipaddr/ipv6/package-info.java

## 1.682 slf4j 1.5.8-PATCHED

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jar/java/org/slf4j/helpers/BasicMarker.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-  
jar/java/org/slf4j/Logger.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-  
jar/java/org/slf4j/Marker.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-  
jar/java/org/slf4j/helpers/BasicMDCAdapter.java

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\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/helpers/MarkerIgnoringBase.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/IMarkerFactory.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/impl/StaticMarkerBinder.java  
\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/helpers/Util.java  
\*  
/opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/impl/StaticLoggerBinder.java  
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\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-jar/java/org/slf4j/MarkerFactory.java  
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jar/java/org/slf4j/spi/LoggerFactoryBinder.java

\* /opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-  
jar/java/org/slf4j/spi/MarkerFactoryBinder.java

\*

/opt/cola/permits/1209325982\_1633048070.9/0/slf4j-api-jdk15-1-5-8-patched-sources-  
jar/java/org/slf4j/helpers/NOPLogger.java

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 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BCJDecoder.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * Hash Chain match finder with 2-, 3-, and 4-byte hashing
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/HC4.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * BCJEncoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 */
```

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BCJEncoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* DeltaEncoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaEncoder.java  
\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/delta/DeltaEncoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* XZOutputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/XZOutputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* ARMThumbOptions  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/ARMThumbOptions.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2Coder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2Coder.java

No license file was found, but licenses were detected in source scan.

```
/*
 * RangeCoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/rangecoder/RangeCoder.java

No license file was found, but licenses were detected in source scan.

```
/*
 * BCJ filter for SPARC instructions
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/SPARC.java

No license file was found, but licenses were detected in source scan.

```
/*
 * RawCoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/RawCoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* CRC32

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/check/CRC32.java  
No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for Itanium (IA-64) instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/IA64.java  
No license file was found, but licenses were detected in source scan.

/\*

\* 2-, 3-, and 4-byte hashing

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/Hash234.java  
No license file was found, but licenses were detected in source scan.

/\*

```
* State
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/State.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* ARMOptions
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/ARMOptions.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* BlockInputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BlockInputStream.java
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* IndexDecoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/IndexDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* CorruptedInputException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/CorruptedInputException.java

No license file was found, but licenses were detected in source scan.

/\*

\* RangeDecoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/rangecoder/RangeDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexRecord

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/IndexRecord.java

No license file was found, but licenses were detected in source scan.

/\*

\* DecoderUtil



```
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/common/DecoderUtil.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Check
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/check/Check.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* LZMACoder
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*         Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/LZMACoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* LZMAEncoder
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*         Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/LZMAEncoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* CountingInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/CountingInputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* SeekableXZInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SeekableXZInputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* CRC32Hash

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/CRC32Hash.java

No license file was found, but licenses were detected in source scan.

/\*

\* XZIOException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/XZIOException.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2InputStream

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2InputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZMAEncoderFast

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-

jar/org/tukaani/xz/lzma/LZMAEncoderFast.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZDecoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/LZDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* SPARCOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SPARCOptions.java

No license file was found, but licenses were detected in source scan.

/\*

\* RangeDecoderFromStream

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/rangecoder/RangeDecoderFromStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* MemoryLimitException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/MemoryLimitException.java

No license file was found, but licenses were detected in source scan.

/\*

\* BCJOptions

\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BCJOptions.java  
No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2Encoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2Encoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for little endian ARM instructions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/ARM.java  
No license file was found, but licenses were detected in source scan.

/\*

\* UnsupportedOperationException  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/UnsupportedOptionsException.java  
No license file was found, but licenses were detected in source scan.

/\*

\* IA64Options

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/IA64Options.java

No license file was found, but licenses were detected in source scan.

/\*

\* SHA256

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/check/SHA256.java

No license file was found, but licenses were detected in source scan.

/\*

\* SimpleOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SimpleOutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexEncoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/IndexEncoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2Decoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2Decoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* SingleXZInputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SingleXZInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* X86Options  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/X86Options.java  
No license file was found, but licenses were detected in source scan.

/\*

```
* XZInputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/XZInputStream.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* BCJ filter for little endian ARM instructions
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/SimpleFilter.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* FilterDecoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/FilterDecoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* RangeDecoderFromBuffer
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*         Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```



Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/rangecoder/RangeDecoderFromBuffer.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexHash

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/IndexHash.java

No license file was found, but licenses were detected in source scan.

/\*

\* Binary Tree match finder with 2-, 3-, and 4-byte hashing

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/BT4.java

No license file was found, but licenses were detected in source scan.

/\*

\* CRC64

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/check/CRC64.java

No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for big endian PowerPC instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/PowerPC.java

No license file was found, but licenses were detected in source scan.

/\*

\* SimpleInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SimpleInputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* SeekableFileInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-

jar/org/tukaani/xz/SeekableFileInputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* None

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/check/None.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * StreamFlags
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/common/StreamFlags.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * Util
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/common/Util.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * DeltaOptions
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaOptions.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * XZFormatException
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
```

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/XZFormatException.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2Options

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2Options.java

No license file was found, but licenses were detected in source scan.

/\*

\* DeltaOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaOutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/LZEncoder.java

No license file was found, but licenses were detected in source scan.

/\*

```
* LZMAInputStream
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMAInputStream.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Matches
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lz/Matches.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* DeltaInputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaInputStream.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* FilterEncoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/FilterEncoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* FilterCoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/FilterCoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZMAEncoderNormal

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/LZMAEncoderNormal.java

No license file was found, but licenses were detected in source scan.

/\*\*

\* XZ data compression support.

\*

\* <h4>Introduction</h4>

\* <p>

\* This aims to be a complete implementation of XZ data compression

\* in pure Java. Features:

\* <ul>

\* <li>Full support for the .xz file format specification version 1.0.4</li>

\* <li>Single-threaded streamed compression and decompression</li>

\* <li>Single-threaded decompression with limited random access support</li>

\* <li>Raw streams (no .xz headers) for advanced users, including LZMA2

\* with preset dictionary</li>

\* </ul>

\* <p>

\* Threading is planned but it is unknown when it will be implemented.  
\* <p>  
\* For the latest source code, see the  
\* <a href="http://tukaani.org/xz/java.html">home page of XZ for Java</a>.  
\*  
\* <h4>Getting started</h4>  
\* <p>  
\* Start by reading the documentation of { @link org.tukaani.xz.XZOutputStream }  
\* and { @link org.tukaani.xz.XZInputStream }.  
\* If you use XZ inside another file format or protocol,  
\* see also { @link org.tukaani.xz.SingleXZInputStream }.  
\*  
\* <h4>Licensing</h4>  
\* <p>  
\* XZ for Java has been put into the public domain, thus you can do  
\* whatever you want with it. All the files in the package have been  
\* written by Lasse Collin and/or Igor Pavlov.  
\* <p>  
\* This software is provided "as is", without any warranty.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/package-info.java  
No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for x86 instructions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <http://7-zip.org/>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/X86.java  
No license file was found, but licenses were detected in source scan.

/\*

\* CountingOutputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/CountingOutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* DeltaDecoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/delta/DeltaDecoder.java

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* PowerPCOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/PowerPCOptions.java

No license file was found, but licenses were detected in source scan.

/\*

\* RangeEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-

jar/org/tukaani/xz/rangecoder/RangeEncoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* SeekableInputStream



\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/SeekableInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* BCJ filter for little endian ARM-Thumb instructions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/simple/ARMThumb.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* UncompressedLZMA2OutputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/UncompressedLZMA2OutputStream.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* BCJCoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BCJCoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* DeltaCoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/DeltaCoder.java

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/delta/DeltaCoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexBase

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/IndexBase.java

No license file was found, but licenses were detected in source scan.

/\*

\* Optimum

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/Optimum.java

No license file was found, but licenses were detected in source scan.

/\*

\* XZ

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/XZ.java

No license file was found, but licenses were detected in source scan.

/\*

\* BlockOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/BlockOutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* BlockInfo

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/index/BlockInfo.java

No license file was found, but licenses were detected in source scan.

/\*

\* FinishableOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-

jar/org/tukaani/xz/FinishableOutputStream.java

No license file was found, but licenses were detected in source scan.

```
/*
 * FilterOptions
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/FilterOptions.java

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2OutputStream
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/LZMA2OutputStream.java

No license file was found, but licenses were detected in source scan.

```
/*
 * IndexIndicatorException
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1209326471\_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/IndexIndicatorException.java

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2Decoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
```

```
* Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/lzma/LZMADecoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* EncoderUtil
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-jar/org/tukaani/xz/common/EncoderUtil.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* FinishableWrapperOutputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1209326471_1633048208.63/0/xz-1-4-sources-1-
jar/org/tukaani/xz/FinishableWrapperOutputStream.java
```

## 1.684 ehcache-core 2.6.10

### 1.684.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
```

```
* Copyright Terracotta, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
```

```

*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
 * Returns a list of all element keys in the cache, whether or not they are expired.
 * <p/>
 * The returned keys are unique and can almost be considered a set. See { @link net.sf.ehcache.store.CacheKeySet
CacheKeySet} for
 * more details.
 * <p/>
 * The List returned is not live. It is a copy.
 * <p/>
 * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
 * for each 1000 entries.
 *
 * @return a list of { @link Object} keys
 * @throws IllegalStateException if the cache is not { @link Status#STATUS_ALIVE}
 * @see net.sf.ehcache.store.CacheKeySet
 */

```

Found in path(s):

```
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/Cache.java
```

No license file was found, but licenses were detected in source scan.

```

/**
 * Copyright 2006 Thomas Hawtin
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

```
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
```

jar/net/sf/ehcache/util/lang/VicariousThreadLocal.java

No license file was found, but licenses were detected in source scan.

/\*\*

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\*

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\*

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\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

\* See the License for the specific language governing permissions and

\* limitations under the License.

\*/

Found in path(s):

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/pool/PoolableStore.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/statistics/LiveCacheStatisticsWrapper.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/config/ManagementRETSServiceConfiguration.java

\*

/opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/util/AtomicLongSequence.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/constructs/nonstop/ClusterOperation.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/hibernate/SingletonEhCacheRegionFactory.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/distribution/CacheManagerPeerProviderFactory.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/terracotta/TerracottaClientRejoinListener.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/store/compound/SerializationCopyStrategy.java

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jar/net/sf/ehcache/constructs/nonstop/store/TransactionalExecutorServiceStore.java
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheEntityRegionAccessStrategy.java  
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\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/cluster/ClusterSchemeNotAvailableException.java

\*

/opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/pool/impl/BalancedAccessOnHeapPoolEvictor.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/config/generator/model/elements/CacheWriterConfigurationElement.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/hibernate/SingletonEhCacheProvider.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/transaction/SoftLockManagerImpl.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/pool/sizeof/filter/SizeOfFilter.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/util/LargeSet.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/store/chm/SelectableConcurrentHashMap.java

\*

/opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/search/impl/ResultsImpl.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/search/Direction.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledRateCounterConfig.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/hibernate/management/impl/NullHibernateStats.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/distribution/TransactionalRMICachePeer.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/store/FifoPolicy.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-

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jar/net/sf/ehcache/distribution/RMICachePeer.java
*
/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/config/generator/model/SimpleNodeAttribute.java
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jar/net/sf/ehcache/transaction/ReadCommittedSoftLockImpl.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/exceptionhandler/CacheExceptionHandler.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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jar/net/sf/ehcache/transaction/TransactionIDNotFoundException.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/distribution/RemoteCacheException.java
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/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/util/counter/sampled/SampledRateCounterImpl.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/config/TerracottaConfiguration.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/AggregateCacheRegionStats.java
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jar/net/sf/ehcache/hibernate/management/impl/ProviderMBeanRegistrationHelper.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/transaction/SoftLockFactory.java

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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/management/sampled/CacheSamplerImpl.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/util/TimeProviderLoader.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/transaction/xa/commands/StoreRemoveCommand.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/EhcacheInit.java
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/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/MimeTypeByteArray.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/util/counter/CounterImpl.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/writer/CacheWriter.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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jar/net/sf/ehcache/exceptionhandler/ExceptionHandlingDynamicCacheProxy.java
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jar/net/sf/ehcache/distribution/RMICacheManagerPeerListenerFactory.java
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/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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jar/net/sf/ehcache/hibernate/management/impl/BaseEmitterBean.java
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/event/TerracottaCacheEventReplication.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/store/LruPolicy.java
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/opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 jar/net/sf/ehcache/config/AbstractCacheConfigurationListener.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/search/attribute/JavaBeanAttributeExtractor.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/transaction/manager/TransactionManagerLookup.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 jar/net/sf/ehcache/pool/sizeof/filter/AnnotationProxyFactory.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/store/ElementIdAssigningStore.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/ThrowTimeoutException.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/constructs/blocking/CacheEntryFactory.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/transaction/xa/EhcacheXAResource.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/search/impl/GroupedResultImpl.java  
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 /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/util/counter/sampled/SampledCounterImpl.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/management/Store.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/event/RegisteredEventListeners.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/config/ElementValueComparatorConfiguration.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/constructs/nonstop/TaskNotSubmittedTimeoutException.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/store/disk/HashEntry.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/Statistics.java  
 \*



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/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/distribution/RMIMCacheManagerPeerListener.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/config/SizeOfPolicyConfiguration.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/writer/writebehind/WriteBehindManager.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/store/LegacyStoreWrapper.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/extension/CacheExtensionFactory.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernateMBeanRegistration.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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*
/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/store/AbstractStore.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/search/Query.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/LocalReadsOnTimeoutStore.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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*
/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/pool/impl/AbstractBalancedAccessEvictor.java
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/config/generator/ConfigurationUtil.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/util/LongSequence.java
*
/opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/DefaultCacheConfigurationElement.java

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\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 jar/net/sf/ehcache/writer/writebehind/operations/SingleOperation.java  
 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-  
 jar/net/sf/ehcache/writer/writebehind/operations/BatchOperation.java  
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\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/Ehcache.java

\* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/store/disk/ElementSubstituteFilter.java

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jar/net/sf/ehcache/transaction/TransactionException.java
* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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* /opt/cola/permits/1209647068_1633109822.29/0/ehcache-core-2-6-10-sources-1-
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/cluster/CacheCluster.java  
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 \* /opt/cola/permits/1209647068\_1633109822.29/0/ehcache-core-2-6-10-sources-1-jar/net/sf/ehcache/terracotta/DisconnectedClusterNode.java  
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jar/net/sf/ehcache/terracotta/TerracottaClient.java
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## 1.710 mixin-deep 1.3.2

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# 1.757 hash.js 1.1.7

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```
# hash.js [![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)](http://travis-ci.org/indutny/hash.js)
```

Just a bike-shed.

```
## Install
```

```
```sh
npm install hash.js
```
```

```
## Usage
```

```
```js
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
```
```

```
## Selective hash usage
```

```
```js
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
```
```

```
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```

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## 1.763 util 0.11.1

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## 1.772 pseudomap 1.0.2

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\* /opt/cola/permits/1237709234\_1638835751.33/0/juliangruber-constants-browserify-v1-0-0-0-ge0ee990-tar-gz/juliangruber-constants-browserify-1ec9662/README.md

## 1.798 loader-runner 2.4.0

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* /opt/cola/permits/1237708960_1638836083.71/0/indutny-brorand-v1-1-0-0-gddc4f93-tar-gz/indutny-brorand-0f106b1/README.md
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[![NPM version](https://badge.fury.io/js/minimalistic-crypto-utils.svg)](http://badge.fury.io/js/minimalistic-crypto-utils)
```

Very minimal utils that are required in order to write reasonable JS-only crypto module.

```
## Usage
```

```
```js
const utils = require('minimalistic-crypto-utils');
```

```
utils.toArray('abcd', 'hex');
utils.encode([ 1, 2, 3, 4 ], 'hex');
utils.toHex([ 1, 2, 3, 4 ]);
```
```

```
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[0]: <http://tools.ietf.org/html/rfc6979>  
[1]: <https://github.com/indutny/bn.js>  
[2]: <https://github.com/indutny/hash.js>  
[3]: <https://github.com/bitchan/eccrypto>  
[4]: <https://github.com/wanderer/secp256k1-node>

Found in path(s):

\* /opt/cola/permits/1237708774\_1638835947.76/0/indutny-minimalistic-crypto-utils-v1-0-1-0-gf4f2b13-tar-gz/indutny-minimalistic-crypto-utils-46ed260/README.md

## 1.839 nopt 3.0.6

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## 1.846 memory-fs 0.4.1

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```
/*  
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Author Tobias Koppers @sokra  
*/
```

Found in path(s):

```
* /opt/cola/permits/1237709266_1638836209.69/0/webpack-memory-fs-v0-4-1-0-g1b3c357-tar-gz/webpack-memory-fs-18e6c99/lib/MemoryFileSystem.js
```

## 1.847 parse-passwd 1.0.0

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## 1.945 log4j-api 2.17.1

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## 1.953 reflectasm:shaded shaded:1.07

### 1.953.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1258575879\_1652141956.7531848/0/reflectasm-1-07-shaded-jar-zip/reflectasm-1-07-shaded-jar/META-INF/maven/com.esotericsoftware.reflectasm/reflectasm/pom.xml

## 1.954 springsource-org-quartz 1.6.0

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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/listeners/TriggerListenerSupport.java

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/listeners/SchedulerListenerSupport.java

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java

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/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/TablePrefixAware.java

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/listeners/JobListenerSupport.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/utills/StringKeyDirtyFlagMap.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/utills/ExceptionHandler.java

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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/DBSemaphore.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/JTANonClusteredSemaphore.java

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/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/RemoteMBeanScheduler.java

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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/listeners/FilterAndBroadcastTriggerListener.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/listeners/FilterAndBroadcastJobListener.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/listeners/JobChainingJobListener.java  
\*

/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java

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jar/org/quartz/xml/job\_scheduling\_data\_1\_5.xsd

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Found in path(s):

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/SchedulerFactory.java

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/simpl/SimpleInstanceIdGenerator.java

\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/SchedulerConfigException.java

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/opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/jdbcjobstore/LockException.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/SchedulerMetaData.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/utils/DirtyFlagMap.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/jobs/ee/jms/SendTopicMessageJob.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/ee/jta/UserTransactionHelper.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/helpers/VersionPrinter.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/JobPersistenceException.java
*
/opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/utils/Pair.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/spi/SchedulerPlugin.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/TriggerUtils.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/core/SchedulerSignalerImpl.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/SimpleTrigger.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/spi/JobFactory.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/calendar/WeeklyCalendar.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/StatefulJob.java
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/opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/simpl/ThreadContextClassLoaderHelper.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/simpl>LoadingLoaderClassLoaderHelper.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/simpl/InitThreadContextClassLoaderHelper.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/jdbcjobstore/InvalidConfigurationException.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/jdbcjobstore/CloudscapeDelegate.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/helpers/TriggerUtils.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/core/QuartzSchedulerResources.java
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/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/PointbaseDelegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Calendar.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/CriticalSchedulerException.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/SchedulerRepository.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/calendar/BaseCalendar.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/JobExecutionException.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Utils/PropertiesParser.java  
\*  
/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/TriggerListener.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/DriverDelegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/SchedulerException.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/MSSQLDelegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/jms/JmsHelper.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/NoOpJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/SchedulerContext.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Utils/ConnectionProvider.java  
\*  
/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Utils/TriggerStatus.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/jms/SendDesitnationMessageJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/jms/JmsMessageFactory.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v7Delegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/jms/SendQueueMessageJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/StdJobRunShellFactory.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/history/LoggingJobHistoryPlugin.java  
\*

/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/NthIncludedDayTrigger.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/NoSuchDelegateException.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/ejb/EJBInvokerJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v6Delegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/spi/ClassLoadHelper.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/calendar/HolidayCalendar.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/InterruptableJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/spi/TriggerFiredBundle.java  
\*  
/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/utils/DBConnectionManager.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/HostnameInstanceIdGenerator.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/core/RemotableQuartzScheduler.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/xml/JobInitializationPluginMultiple.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/PropertySettingJobFactory.java  
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/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/core/SchedulingContext.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/utils/Key.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/QuartzServer.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/FileScanJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/core/JobRunShellFactory.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/history/LoggingTriggerHistoryPlugin.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/StdSchedulerFactory.java  
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/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/StdJDBCConstants.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/JobDataMap.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/Constants.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/spi/TimeBroker.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Utils/JNDIConnectionProvider.java  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/JobDetail.java  
\*  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/xml/JobInitializationPlugin.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/SchedulerListener.java  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/JobExecutionContext.java  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/ee/jta/JTAJobRunShell.java  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/spi/SchedulerSignaler.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/Scheduler.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/SimpleTimeBroker.java  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/calendar/AnnualCalendar.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/RemoteScheduler.java

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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/UnableToInterruptJobException.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/CascadingClassLoadHelper.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/ee/mail/SendMailJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/plugins/management/ShutdownHookPlugin.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/jobs/NativeJob.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/SchedulerStateRecord.java  
\*  
/opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/calendar/MonthlyCalendar.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/SimpleJobFactory.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/SimpleClassLoadHelper.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/JobStoreCMT.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/ee/jta/JTAJobRunShellFactory.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/spi/ThreadPool.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/FiredTriggerRecord.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/Util.java  
\*  
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\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v8Delegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/simpl/RAMJobStore.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/Semaphore.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/xml/JobSchedulingDataProcessor.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/impl/jdbcjobstore/PostgreSQLDelegate.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-jar/org/quartz/core/QuartzSchedulerThread.java  
\*



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/opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/DirectSchedulerFactory.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/jdbcjobstore/StdRowLockSemaphore.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/jobs/FileScanListener.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/ObjectAlreadyExistsException.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/Job.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/impl/jdbcjobstore/JobStoreTX.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/simpl/SimpleThreadPool.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/CronTrigger.java
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/opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/jobs/ee/jms/JmsJobException.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/jobs/ee/jmx/JMXInvokerJob.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/spi/InstanceIdGenerator.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/JobListener.java
* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
jar/org/quartz/xml/CalendarBundle.java
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* /opt/cola/permits/1258575874_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-
```

jar/org/quartz/ee/servlet/QuartzInitializerListener.java  
\* /opt/cola/permits/1258575874\_1643088917.31/0/com-springsource-org-quartz-1-6-0-sources-  
jar/org/quartz/ee/servlet/QuartzInitializerServlet.java

# 1.955 springframework-core 3.1.3.RELEASE

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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/io/ContextResource.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/util/xml/XmlValidationModeDetector.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/util/StringValueResolver.java  
*  
/opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/util/PatternMatchUtils.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/style/ValueStyler.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/style/StylerUtils.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/io/FileSystemResourceLoader.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/io/support/EncodedResource.java  
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/io/ResourceLoader.java
```

\*  
/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/filter/TypeFilter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/task/TaskTimeoutException.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/SmartClassLoader.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java  
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- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/MutablePropertySources.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/AntPathMatcher.java
- \*
- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/UrlResource.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/VfsUtils.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/OrderComparator.java
- \*
- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/ResourceUtils.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/Resource.java
- \*
- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/AntPathStringMatcher.java

\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/Property.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/CollectionFactory.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/StaxEventContentHandler.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/Constants.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/PropertyDescriptor.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/ClassPathResource.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/AbstractResource.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/CompositePropertySource.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/FileSystemResource.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/VfsResource.java  
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- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/NumberUtils.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/PriorityOrdered.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/enums/AbstractGenericLabeledEnum.java
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- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/StaxSource.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/enums/ShortCodedLabeledEnum.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
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- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/enums/LabeledEnum.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java

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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/Ordered.java  
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java  
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/StandardClassMetadata.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/enums/LetterCodedLabeledEnum.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/enums/StaticLabeledEnumResolver.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/annotation/Order.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/StaxResult.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/type/MethodMetadata.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/MultiValueMap.java  
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java  
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jar/org/springframework/core/NestedCheckedException.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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jar/org/springframework/core/JdkVersion.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
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jar/org/springframework/core/enums/StringCodedLabeledEnum.java

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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/NestedRuntimeException.java

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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java

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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
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jar/org/springframework/core/style/DefaultToStringStyler.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
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jar/org/springframework/core/style/DefaultValueStyler.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/NamedThreadLocal.java  
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jar/org/springframework/util/comparator/InvertibleComparator.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/util/comparator/NullSafeComparator.java  
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- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
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- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/ConstantException.java
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- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
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- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
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- /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
- \* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/AbstractDescriptor.java
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/convert/support/CollectionToStringConverter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/util/ObjectUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-  
jar/org/springframework/core/env/PropertiesPropertySource.java

\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/ErrorHandler.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/Environment.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/CommandLinePropertySource.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java  
\*  
/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java

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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/ConversionException.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/AbstractStaxContentHandler.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/serializer/Serializer.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/SerializationUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/TypeUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/StaxStreamContentHandler.java  
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\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/env/EnvironmentCapable.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/PathMatcher.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/StopWatch.java  
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/opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/LinkedMultiValueMap.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/SystemPropertyUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/FileSystemUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/convert/ConversionFailedException.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java  
\* /opt/cola/permits/1258605307\_1643093783.67/0/spring-core-3-1-3-release-sources-

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jar/org/springframework/util/xml/StaxEventXMLReader.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/util/WeakReferenceMonitor.java
*
/opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/util/xml/XMLStreamWriter.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/core/io/support/ResourcePatternUtils.java
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jar/org/springframework/util/PropertiesPersister.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/core/ControlFlow.java
* /opt/cola/permits/1258605307_1643093783.67/0/spring-core-3-1-3-release-sources-
jar/org/springframework/core/ErrorCodeed.java
```

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```

Found in path(s):

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* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
*
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/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/core/metadata/TableMetaDataContext.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/support/lob/DefaultLobHandler.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \*  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/datasource/ConnectionHolder.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
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 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/core/simple/SimpleJdbcCall.java  
 \*  
 /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/config/SortedResourcesFactoryBean.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
 zip/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java  
 \* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-



zip/org/springframework/jdbc/support/nativejdbc/Jdbc4NativeJdbcExtractor.java  
\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java  
\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/DataSourceUtils.java  
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 */
/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */
/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never <code>null</code>)
 */
```

Found in path(s):

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/ParameterMapper.java  
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 */
/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large Objects.
 * Its main purpose is to isolate Oracle's peculiar handling of LOBs in
 * {@link OracleLobHandler}; most other databases should be able to work
 * with
 * the provided {@link DefaultLobHandler}.
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
 * LobCreators are typically instantiated for each statement execution or for
 * each transaction; they are not thread-safe because they might track
 * allocated database resources in order to free them after execution.
 *
 * <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
 * which by default delegates to JDBC's direct accessor methods, avoiding the
 * <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.
 * {@link DefaultLobHandler} can also be configured to access LOBs using
 * <code>PreparedStatement.setBlob/setClob</code> (e.g. for PostgreSQL), through
 * setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.
 *
 * <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
 * proprietary BLOB/CLOB
 * API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need to use
 * {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
 * of access. The Oracle 10g JDBC driver should basically work with
 * {@link DefaultLobHandler} as well, with some limitations in terms of LOB sizes.
 *
 * <p>Of course, you need to declare different field types for each database.
 * In Oracle, any binary content needs to go into a BLOB, and all character content
 * beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
 * CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete

```

```

* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
*
* <p><b>Summarizing the recommended options (for actual LOB fields):</b>
* <ul>
* <li><b>JDBC 4.0 driver:</b> { @link DefaultLobHandler }
  with <code>streamAsLob=true</code>.
* <li><b>PostgreSQL:</b> { @link DefaultLobHandler } with <code>wrapAsLob=true</code>.
* <li><b>Oracle 9i/10g:</b> { @link OracleLobHandler } with a connection-pool-specific
* { @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor }.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): a plain { @link DefaultLobHandler }.
* </ul>
*
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

```

Found in path(s):

```

* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/support/lob/LobHandler.java

```

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*/
/**

```

- \* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
- \* Will not need to do anything if using PreparedStatement's standard methods,
- \* but might be necessary to free database resources if using proprietary means.
- \* **NOTE**: Needs to be invoked after the involved

PreparedStatement have

- \* been executed or the affected O/R mapping sessions have been flushed.
- \* Otherwise, the database resources for the temporary BLOBs might stay allocated.
- \*/

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\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/lob/LobCreator.java

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zip/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java

\*

/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/SQLExceptionCodesFactory.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/SQLExceptionCodes.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/StatementCreatorUtils.java

\*

/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/DelegatingDataSource.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/AbstractDataSource.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/init/CannotReadScriptException.java

\*

/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java

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\*

\* The classes in this package make JDBC easier to use and  
\* reduce the likelihood of common errors. In particular, they:

\* <ul>

\* <li>Simplify error handling, avoiding the need for try/catch/final  
\* blocks in application code.

\* <li>Present exceptions to application code in a generic hierarchy of  
\* unchecked exceptions, enabling applications to catch data access  
\* exceptions without being dependent on JDBC, and to ignore fatal  
\* exceptions there is no value in catching.

\* <li>Allow the implementation of error handling to be modified  
\* to target different RDBMSes without introducing proprietary  
\* dependencies into application code.

\* </ul>

\*

\* <p>This package and related packages are discussed in Chapter 9 of

\* <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and  
Development</a>

\* by Rod Johnson (Wrox, 2002).

\*

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zip/org/springframework/jdbc/package-info.java

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zip/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
*
/opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/core/SqlResultSet.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
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* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
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*
/opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/support/lob/LobCreatorUtils.java
* /opt/cola/permits/1258605368_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-
zip/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
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/**
 * Strategy interface for translating between { @link SQLException SQLExceptions }
 * and Spring's data access strategy-agnostic { @link DataAccessException }
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */
```

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```
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zip/org/springframework/jdbc/support/SQLExceptionTranslator.java
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zip/org/springframework/jdbc/support/lob/AbstractLobHandler.java  
\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/datasource/ConnectionHandle.java

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/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/ParameterDisposer.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/LobRetrievalFailureException.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java

\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java

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zip/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java

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zip/org/springframework/jdbc/core/PreparedStatementCreator.java  
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zip/org/springframework/jdbc/core/SqlProvider.java

\*  
/opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/core/CallableStatementCreator.java  
\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/DatabaseMetaDataCallback.java

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zip/org/springframework/jdbc/object/GenericStoredProcedure.java  
\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/object/GenericSqlQuery.java

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*/
/**
* { @link LobHandler } implementation for Oracle databases. Uses proprietary API
* to create oracle.sql.BLOB and oracle.sql.CLOB
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*
* <p>While
* most databases are able to work with { @link DefaultLobHandler },
* Oracle just accepts Blob/Clob instances created via its own proprietary
* BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need
* to use a strategy like this LobHandler implementation.
*
* <p>Needs to work on a native JDBC Connection, to be able to cast it to
* oracle.jdbc.OracleConnection. If you pass in Connections from a
* connection pool (the usual case in a J2EE environment), you need to set an
* appropriate { @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor }
* to allow for automatical retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of
* different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see #setNativeJdbcExtractor
* @see oracle.sql.BLOB
* @see oracle.sql.CLOB
*/

```

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\* /opt/cola/permits/1258605368\_1710740380.6093366/0/spring-jdbc-3-1-3-release-sources-  
zip/org/springframework/jdbc/support/lob/OracleLobHandler.java

# 1.958 spring-framework-beans

## 3.1.3.RELEASE

### 1.958.1 Available under license :

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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-  
jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java

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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
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- /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/PropertyAccessException.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/PropertyAccessor.java
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
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- /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/AutowiredCandidateResolver.java
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/AutowiredCapableBeanFactory.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
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- /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/xml/ParserContext.java
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/TypeMismatchException.java

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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java  
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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/ConfigurablePropertyAccessor.java

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jar/org/springframework/beans/TypeConverterDelegate.java  
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/opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-  
jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java  
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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java

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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-  
jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java  
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/opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-  
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jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java  
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jar/org/springframework/beans/PropertyEditorRegistry.java  
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jar/org/springframework/beans/factory/parsing/ProblemReporter.java  
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jar/org/springframework/beans/factory/access/BeanFactoryLocator.java  
\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-  
jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java  
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/MutablePropertyValues.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
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- /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistryPostProcessor.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
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- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/config/PropertiesFactoryBean.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
- \* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
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/opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java  
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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java  
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\* /opt/cola/permits/1258605333\_1643093772.59/0/spring-beans-3-1-3-release-sources-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java  
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# 1.959 springframework-transaction

## 3.1.3.RELEASE

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* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
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jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java  
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jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java  
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jar/org/springframework/transaction/jta/SimpleTransactionFactory.java  
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jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/jta/OC4JJtaTransactionManager.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/transaction/TransactionSystemException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/work/DelegatingWork.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java  
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/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/support/SimpleBootstrapContext.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/transaction/InvalidTimeoutException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/dao/PessimisticLockingFailureException.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/dao/CannotAcquireLockException.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java  
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* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
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jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/DeadlockLoserDataAccessException.java
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* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
*
/opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
```



jar/org/springframework/transaction/support/SimpleTransactionStatus.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/dao/DuplicateKeyException.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/support/AbstractTransactionStatus.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/dao/support/DataAccessUtils.java  
 \*  
 /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/support/SmartTransactionObject.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/config/TxNamespaceHandler.java  
 \*  
 /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/jca/work/WorkManagerTaskExecutor.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/jta/TransactionFactory.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/annotation/Isolation.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/jta/JtaTransactionObject.java  
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 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/jca/work/SimpleTaskWorkManager.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/interceptor/TransactionAttribute.java  
 \* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
 jar/org/springframework/transaction/support/TransactionTemplate.java

```
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
*
/opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
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* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/jca/cci/core/ConnectionCallback.java
*
/opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/jca/cci/core/CciTemplate.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/TransientDataAccessException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/PlatformTransactionManager.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/jca/cci/core/RecordExtractor.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
```

jar/org/springframework/transaction/support/ResourceHolderSupport.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/NonTransientDataAccessResourceException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/core/CciOperations.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/context/SpringContextResourceAdapter.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/core/support/CciDaoSupport.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/ResourceHolder.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/NonTransientDataAccessException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/core/InteractionCallback.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/TransientDataAccessResourceException.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/RecoverableDataAccessException.java  
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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/connection/ConnectionHolder.java

\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java

\*

/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/core/RecordCreator.java

\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java

\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java

\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/object/MappingRecordOperation.java

\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java

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\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/annotation/EnableTransactionManagement.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/TransactionOperations.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/TransactionCallback.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/TransactionSynchronizationManager.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/ResourceHolderSynchronization.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/context/BootstrapContextAware.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/support/DefaultTransactionStatus.java  
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jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/CannotCreateRecordException.java  
\*  
/opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/transaction/SavepointManager.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/object/EisOperation.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/CciOperationNotSupportedException.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/object/SimpleRecordOperation.java  
\* /opt/cola/permits/1258605302\_1643093777.28/0/spring-tx-3-1-3-release-sources-  
jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java

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jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
*
/opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/QueryTimeoutException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /opt/cola/permits/1258605302_1643093777.28/0/spring-tx-3-1-3-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java
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```
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jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
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*
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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java  
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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java  
\*  
/opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PoolArenaMetric.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PoolChunkMetric.java



\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java  
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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ByteBufInputStream.java  
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/opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PoolArena.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/CompositeByteBuf.java  
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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ByteBufAllocator.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/DuplicatedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/Unpooled.java

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/opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/PoolThreadCache.java
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jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/package-
info.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/PooledByteBufAllocator.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/AbstractByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/AbstractByteBufAllocator.java
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/opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/PooledByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
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jar/io/netty/buffer/PoolChunkList.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/PoolChunk.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/ByteBuf.java
* /opt/cola/permits/1258897953_1643118320.22/0/netty-buffer-4-1-48-final-sources-
jar/io/netty/buffer/SwappedByteBuf.java

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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java  
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\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java  
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/opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/WrappedByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/EmptyByteBuf.java  
\* /opt/cola/permits/1258897953\_1643118320.22/0/netty-buffer-4-1-48-final-sources-jar/io/netty/buffer/ByteBufProcessor.java

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jar/io/netty/buffer/PooledHeapByteBuf.java

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jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java  
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\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java  
\*  
/opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java  
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\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java  
\*  
/opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java

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* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
*
/opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
*
/opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
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```

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```
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1266592241_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-
```

jar/io/netty/handler/codec/socks/SocksResponseType.java  
\*  
/opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/SocksVersion.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdStatus.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksCmdType.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksMessageType.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthStatus.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java  
\*  
/opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksAddressType.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socks/SocksAuthScheme.java  
\* /opt/cola/permits/1266592241\_1644246582.0/0/netty-codec-socks-4-1-49-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java  
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# 1.963 netty-codec 4.1.49.Final

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/\*\*

\* Utility class for { @link ByteBuf } that encodes and decodes to and from  
\* [Base64](http://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\*

The encoding and decoding algorithm in this class has been derived from

\* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)  
\* Base64 Encoder/Decoder</a>.

\*/

Found in path(s):

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io.netty.handler.codec/base64/Base64.java

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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/compression/Crc32c.java

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jar/io/netty/handler/codec/DefaultHeaders.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/Headers.java

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
  Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Snappy.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/Delimiters.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/MessageAggregator.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/package-info.java

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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

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jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
*
/opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
*
/opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
*
/opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

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/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DecoderException.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/package-info.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/EncoderException.java

\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DecoderResult.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java

\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/xml/package-info.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java

\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java

\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/CodecException.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java  
\*

/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DateFormatter.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/CodecOutputList.java  
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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/ValueConverter.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java  
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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-

jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\*  
/opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
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 /\*\*

\* A decoder that splits the received { @link ByteBuf}s dynamically by the  
 \* value of the length field in the message. It is particularly useful when you  
 \* decode a binary message which has an integer header field that represents the  
 \* length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder} has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

\* <pre>

\* <b>lengthFieldOffset</b> = <b>0</b>  
 \* <b>lengthFieldLength</b> = <b>2</b>  
 \* lengthAdjustment = 0  
 \* initialBytesToStrip = 0 (= do not strip header)

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

\* +-----+-----+      +-----+-----+

\* | Length | Actual Content

|---->| Length | Actual Content |

\* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |

\* +-----+-----+      +-----+-----+

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, strip header</h3>

\*

\* Because we can get the length of the content by calling  
 \* { @link ByteBuf#readableBytes()}, you might want to strip the length  
 \* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
 \* specified <tt>2</tt>, that is same with the length of the length field, to  
 \* strip the first two bytes.

\* <pre>

```

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* </pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* </pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*

```



```

* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
* | WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |

```

```

* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1266592166_1644246835.15/0/netty-codec-4-1-49-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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\* /opt/cola/permits/1266592166\_1644246835.15/0/netty-codec-4-1-49-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

# 1.964 netty-transport-native-epoll 4.1.49.Final

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Found in path(s):

\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/netty\_epoll\_linuxsocket.c

\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/netty\_epoll\_linuxsocket.h

\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

\*

\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/Native.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/netty\_epoll\_native.c

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\* Set the {@code TCP\_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the {@code TCP\_QUICKACK} option on the socket. See [TCP\\_QUICKACK](http://linux.die.net/man/7/tcp)

\* for more details.

\*/

Found in path(s):

\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java  
\*  
/opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java  
\*  
/opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollMode.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java  
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\*  
/opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java  
\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java  
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\* /opt/cola/permits/1266592204\_1644246824.91/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java  
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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java  
\*  
/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/address/package-info.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java



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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

\*

/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

\*

/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/Conscrypt.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

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jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
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jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/PemEncoded.java
*
 /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
```

jar/io/netty/handler/ssl/PemPrivateKey.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-

jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-

jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

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// Try the OpenJDK's proprietary implementation.

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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-

jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-

jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

```
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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Found in path(s):

```
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
```

jar/io/netty/handler/ssl/JdkSslEngine.java  
\*  
/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/SslContext.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509Certificate.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\*  
/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientContext.java  
\*  
/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JdkSslServerContext.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionStats.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-  
jar/io/netty/handler/ssl/OpenSslEngine.java

```

*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
*

```

/opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/META-INF/maven/io.netty/netty-handler/pom.xml

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\* /opt/cola/permits/1266592321\_1644246590.21/0/netty-handler-4-1-49-final-sources-



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jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-jar/META-INF/native-
image/io.netty.handler.native-image.properties
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```
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jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
*
 /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
*
 /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
```

```
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/package-info.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
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```
Found in path(s):
* /opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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Found in path(s):

```
*/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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```
*/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/package-info.java
*/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
*/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*
/opt/cola/permits/1266592321_1644246590.21/0/netty-handler-4-1-49-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
```

# 1.966 netty-transport-native-unix-common

## 4.1.49.Final

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Found in path(s):

```
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/IovArray.java
*
/opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/package-info.java
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```

Found in path(s):

```
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
```

\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/Limits.java  
\*  
/opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/PeerCredentials.java  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_limits.h

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\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java

\*

/opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_filedescriptor.c

\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java

\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/netty\_unix\_socket.c

\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-

```
jar/netty_unix_errors.h
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
*
/opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
*
/opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
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* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/netty_unix_buffer.h
* /opt/cola/permits/1266592188_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-
jar/netty_unix_buffer.c
```

\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

\*

/opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/Buffer.java

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\* /opt/cola/permits/1266592188\_1644246564.47/0/netty-transport-native-unix-common-4-1-49-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

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# 1.967 netty-codec-http 4.1.49.Final

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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java

\*

/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java

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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java

\*

/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java

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jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java  
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image/io.netty.codec.http2/native-image.properties  
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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

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jar/io/netty/handler/codec/http2/HttpConversionUtil.java  
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jar/io/netty/handler/codec/http2/Http2EventAdapter.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java  
\*  
/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/package-info.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java  
\*  
/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2FrameListener.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java  
\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-  
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java

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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java  
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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java  
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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2CodecUtil.java

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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java  
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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java

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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java  
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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java  
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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java



\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java

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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java

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\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2Frame.java

\* /opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamException.java

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/opt/cola/permits/1266592217\_1644246823.75/0/netty-codec-http2-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java

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jar/io/netty/channel/socket/nio/NioChannelOption.java

\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
jar/io/netty/channel/SimpleUserEventChannelHandler.java

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\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java  
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/opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/SelectStrategyFactory.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/SelectStrategy.java  
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/opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/DuplexChannel.java  
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- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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- /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
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- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
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- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
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- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroup.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
- \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
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* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
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\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
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jar/io/netty/channel/ExtendedClosedChannelException.java  
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 jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/oio/package-info.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/DefaultChannelPromise.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/group/ChannelGroupFuture.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/VoidChannelPromise.java  
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 /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/ChannelException.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/MultithreadEventLoopGroup.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/socket/DatagramChannelConfig.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/oio/OioEventLoopGroup.java  
 \*  
 /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/CombinedChannelDuplexHandler.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/embedded/package-info.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/ChannelPipelineException.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/ChannelOption.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/AbstractChannel.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/bootstrap/ServerBootstrap.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/socket/nio/package-info.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/SucceededChannelFuture.java  
 \*  
 /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-  
 jar/io/netty/channel/AbstractChannelHandlerContext.java  
 \* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-

```

jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/EventLoop.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/nio/NioTask.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/RecvByteBufAllocator.java
*
/opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/package-info.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ServerChannel.java
*
/opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/DefaultEventLoopGroup.java
*
/opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/FileRegion.java

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\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
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/opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\*  
/opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/nio/package-info.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java  
\*  
/opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1266592218\_1644246562.98/0/netty-transport-4-1-49-final-sources-

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jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelMetadata.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/DefaultChannelPipeline.java
*
/opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/oio/AbstractOioChannel.java
*
/opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/local/LocalChannelRegistry.java
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```

```
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*/
```



```

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link
 * ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}
 * object. A { @link ChannelHandler} is supposed to interact with the
 * { @link ChannelPipeline} it belongs to via a context object. Using the
 * context object, the { @link ChannelHandler} can pass events upstream or
 * downstream, modify the pipeline dynamically,
 * or store the information
 * (using { @link AttributeKey}s) which is specific to the handler.
 *
 * <h3>State management</h3>
 *
 * A { @link ChannelHandler} often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
 * <pre>
 * public interface Message {
 *     // your methods here
 * }
 *
 * public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
 *
 *     <b>private boolean loggedIn;</b>

```

```

*
*  {@code @Override}
*  public void channelRead0({ @link ChannelHandlerContext} ctx, Message message) {
*      if (message instanceof LoginMessage) {
*          authenticate((LoginMessage) message);
*          <b>loggedIn = true;</b>
*      } else (message instanceof GetDataMessage) {
*          if (<b>loggedIn</b>) {
*              ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*          } else {
*              fail();
*          }
*      }
*  }
*  ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

```

```

*
*  { @code @Override }
*  public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*    { @link Attribute } &lt; { @link Boolean } &gt; attr = ctx.attr(auth);
*    if (message instanceof LoginMessage) {
*      authenticate((LoginMessage) o);
*      <b>attr.set(true)</b>;
*    } else (message instanceof GetDataMessage) {
*      if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*        ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*      } else {
*        fail();
*      }
*    }
*  }
* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   { @code @Override }
*   public void initChannel({ @link Channel } channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </pre>

```

\* <h4>The { @code @Sharable } annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey }, you might have noticed the { @code @Sharable } annotation.

\* <p>

\* If a { @link ChannelHandler } is annotated with the { @code @Sharable } annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline }s multiple times without a race condition.

\* <p>

\* If this annotation is not specified, you have to create a new handler

\* instance every time you add it to a pipeline because it has unshared state

\* such as member variables.

```
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/
```

Found in path(s):

```
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-
jar/io/netty/channel/ChannelHandler.java
```

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Found in path(s):

```
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/META-INF/native-
image/io.netty.transport/native-image.properties
```

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Found in path(s):

```
* /opt/cola/permits/1266592218_1644246562.98/0/netty-transport-4-1-49-final-sources-jar/META-
INF/maven/io.netty/netty-transport/pom.xml
```

# 1.969 netty-resolver 4.1.49.Final

## 1.969.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
```

```
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
```

```
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/InetAddressResolver.java
*
/opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
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```
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-jar/io/netty/resolver/package-
info.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/SimpleNameResolver.java
*
/opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1266592280_1644246831.69/0/netty-resolver-4-1-49-final-sources-
```

jar/io/netty/resolver/AddressResolverGroup.java

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\* /opt/cola/permits/1266592280\_1644246831.69/0/netty-resolver-4-1-49-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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\* /opt/cola/permits/1266592280\_1644246831.69/0/netty-resolver-4-1-49-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

# 1.970 netty-handler-proxy 4.1.49.Final

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\* /opt/cola/permits/1266592314\_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-jar/io.netty.handler.proxy.ProxyConnectException.java

\* /opt/cola/permits/1266592314\_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-jar/io.netty.handler.proxy.ProxyConnectionEvent.java

\*



```
/opt/cola/permits/1266592314_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1266592314_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/1266592314_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1266592314_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/1266592314_1644246569.38/0/netty-handler-proxy-4-1-49-final-sources-
jar/io/netty/handler/proxy/HttpProxyHandler.java
```

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\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/InvalidPathException.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/JsonPath.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/JsonPathException.java  
\*  
/opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/WriteContext.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/function/latebinding/PathLateBindingValue.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/InvalidJsonException.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/JsonSmartMappingProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/JettisonProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/InvalidCriteriaException.java  
\*  
/opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/Option.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/Path.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/Configuration.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/CompiledPath.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/Criteria.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/JsonProvider.java

\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/ScanPathToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java  
 \*  
 /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/DocumentContext.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/MapFunction.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/EvaluationContextImpl.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/WildcardPathToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/Filter.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/EvaluationListener.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/InvalidModificationException.java  
 \*  
 /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/Predicate.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/TypeRef.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/ReadContext.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/ArrayIndexToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/ArraySliceToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/MappingProvider.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/PathToken.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/EvaluationContext.java  
 \*  
 /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/cache/LRUCache.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/Utils.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java  
 \* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/GsonMappingProvider.java

\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java  
\*  
/opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/ValueCompareException.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/MappingException.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/path/RootPathToken.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/spi/mapper/JakartaMappingProvider.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/JsonFormatter.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/JsonContext.java  
\*  
/opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/PathNotFoundException.java  
\* /opt/cola/permits/1271842986\_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/ParseContext.java

## 1.973 minimatch 3.1.2

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```
*/opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
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/opt/cola/permits/1343828809\_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/package-info.java

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\* /opt/cola/permits/1343828809\_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java

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\* /opt/cola/permits/1343828809\_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java

\*  
/opt/cola/permits/1343828809\_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java  
\* /opt/cola/permits/1343828809\_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java  
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jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/CallNotPermittedException.java
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/opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnCallNotPermittedEvent.java
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jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
* /opt/cola/permits/1343828809_1655158614.967719/0/resilience4j-circuitbreaker-1-7-1-sources-2-
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jar/io/github/resilience4j/core/metrics/MetricsPublisher.java
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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/lang/NonNullApi.java

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```
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/lang/NonNullFields.java
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/lang/NonNull.java
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/lang/Nullable.java
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* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/ResultUtils.java
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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventConsumer.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventPublisher.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventProcessor.java  
\*  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StopWatch.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ContextAwareScheduledThreadPoolExecutor.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/NamingThreadFactory.java

\*

/opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ContextPropagator.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/exception/AcquirePermissionCancelledException.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CallableUtils.java

\*

/opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/SupplierUtils.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StringUtils.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ClassUtils.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CompletionStageUtils.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Snapshot.java  
\*  
/opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Measurement.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/PartialAggregation.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/AbstractAggregation.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Metrics.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/FixedSizeSlidingWindowMetrics.java  
\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/TotalAggregation.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/RegistryEvent.java

\*

/opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/AbstractRegistryEvent.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/EntryAddedEvent.java

\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/EntryRemovedEvent.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/package-info.java

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* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/ConfigurationNotFoundException.java
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jar/io/github/resilience4j/core/registry/AbstractRegistry.java
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-
jar/io/github/resilience4j/core/Registry.java
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\* /opt/cola/permits/1345101705\_1655310249.8010132/0/jaeger-thrift-0-28-0-sources-

jar/io/jaegertracing/thrift/reporters/protocols/ThriftUdpTransport.java

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\* /opt/cola/permits/1345101705\_1655310249.8010132/0/jaeger-thrift-0-28-0-sources-

jar/io/jaegertracing/thrift/senders/ThriftSenderBase.java

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jar/io/jaegertracing/baggage/Restriction.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/http/BaggageRestrictionResponse.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/BaggageRestrictionManager.java

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/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/propagation/B3TextMapCodec.java

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jar/io/jaegertracing/baggage/BaggageSetter.java

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jar/io/jaegertracing/Utils/Java6CompatibleThreadLocalRandom.java

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jar/io/jaegertracing/Reference.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/exceptions/BaggageRestrictionManagerException.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/HttpBaggageRestrictionManagerProxy.java

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jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java

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jar/io/jaegertracing/propagation/HexCodec.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/RemoteBaggageRestrictionManager.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/DefaultBaggageRestrictionManager.java

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\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java

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/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/MetricsFactory.java

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/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/Sender.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/CompositeReporter.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/RateLimiter.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java

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\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java

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/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/UdpSender.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-

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jar/io/jaegertracing/senders/HttpSender.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/metrics/Timer.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/PrefixKeys.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/reporters/LoggingReporter.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java
*
/opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/Injector.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Tracer.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/RateLimitingSampler.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/PerOperationSampler.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/propagation/TextMapCodec.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/senders/ThriftSender.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java
*
/opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/Configuration.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/SpanContext.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/exceptions/NotFourOctetsException.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/Utils/Utils.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/metrics/Metric.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/ProbabilisticSampler.java
*
/opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/metrics/Tag.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/Utils/SystemClock.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-

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jar/io/jaegertracing/utils/Clock.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/ConstSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/Sampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/metrics/Metrics.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/HttpSamplingManager.java  
\*  
/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/RemoteControlledSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/reporters/Reporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/SamplingStatus.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/metrics/Counter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/metrics/Gauge.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Span.java  
\*  
/opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/LogData.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/reporters/NoopReporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/samplers/SamplingManager.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/propagation/Extractor.java

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# 1.1002 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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com.fasterxml.jackson.dataformat.smile.SmileFactory

Found in path(s):

\* /opt/cola/permits/1407264880\_1662152021.6281753/0/jackson-dataformat-smile-2-12-7-sources-jar/META-INF/services/com.fasterxml.jackson.core.JsonFactory

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## 1.1018 follow-redirects 1.15.2

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\* /opt/cola/permits/1421016306\_1663620298.5728998/0/spring-instrument-4-3-20-release-sources-1-jar/org/springframework/instrument/InstrumentationSavingAgent.java

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\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java  
\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/ConsoleAppender.java  
\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/joran/action/ParamAction.java  
\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java  
\*  
/opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/CoreConstants.java  
\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-

```

jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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*
/opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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*
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
*
/opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java
* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
jar/ch/qos/logback/core/spi/LogbackLock.java

```

\* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/spi/ContextAware.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/util/IncompatibleClassException.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/joran/action/ActionUtil.java  
 \*  
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 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java  
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 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/util/ExecutorServiceUtil.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/encoder/Encoder.java  
 \*  
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 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/joran/action/ActionConst.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/net/QueueFactory.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/sift/AbstractAppenderFactoryUsingJoran.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/status/StatusBase.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/util/EnvUtil.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/util/OptionHelper.java  
 \*  
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 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/layout/EchoLayout.java  
 \* /opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-

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jar/ch/qos/logback/core/util/CharSequenceState.java
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* /opt/cola/permits/1421028548_1663622550.894117/0/logback-core-1-2-9-sources-1-
jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java
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jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
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jar/ch/qos/logback/core/hook/ShutdownHookBase.java

\*

/opt/cola/permits/1421028548\_1663622550.894117/0/logback-core-1-2-9-sources-1-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java

# 1.1023 logback-classic 1.2.9

## 1.1023.1 Available under license :

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--

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-- This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender

--

-- It is intended for Oracle 9i, 10g and 11g databases. Tested on version 9.2,

-- 10g and 11g.

-- The following lines are useful in cleaning any previously existing tables

--drop TRIGGER logging\_event\_id\_seq\_trig;

--drop SEQUENCE logging\_event\_id\_seq;

--drop table logging\_event\_property;

--drop table logging\_event\_exception;

--drop table logging\_event;

CREATE SEQUENCE logging\_event\_id\_seq MINVALUE 1 START WITH 1;

CREATE TABLE logging\_event

(

  timestamp  NUMBER(20) NOT NULL,

  formatted\_message VARCHAR2(4000) NOT NULL,

  logger\_name  VARCHAR(254) NOT NULL,

  level\_string  VARCHAR(254)

NOT NULL,

  thread\_name  VARCHAR(254),

  reference\_flag SMALLINT,

  arg0          VARCHAR(254),

  arg1          VARCHAR(254),

  arg2          VARCHAR(254),

  arg3          VARCHAR(254),

  caller\_filename VARCHAR(254) NOT NULL,

  caller\_class  VARCHAR(254) NOT NULL,

```

caller_method  VARCHAR(254) NOT NULL,
caller_line    CHAR(4) NOT NULL,
event_id       NUMBER(10) PRIMARY KEY
);

-- the / suffix may or may not be needed depending on your SQL Client
-- Some SQL Clients, e.g. Squirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

```

```

CREATE TRIGGER logging_event_id_seq_trig
BEFORE INSERT ON logging_event
FOR EACH ROW
BEGIN
  SELECT logging_event_id_seq.NEXTVAL
  INTO   :NEW.event_id
  FROM   DUAL;
END;
/

```

```

CREATE TABLE logging_event_property
(
  event_id  NUMBER(10) NOT NULL,

  mapped_key  VARCHAR2(254) NOT NULL,
  mapped_value VARCHAR2(1024),
  PRIMARY KEY(event_id, mapped_key),
  FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);

```

```

CREATE TABLE logging_event_exception
(
  event_id  NUMBER(10) NOT NULL,
  i         SMALLINT NOT NULL,
  trace_line VARCHAR2(254) NOT NULL,
  PRIMARY KEY(event_id, i),
  FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);

```

Found in path(s):

```

* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
jar/ch/qos/logback/classic/db/script/oracle.sql

```

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```
--  
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-- conditions.  
  
-- This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender  
--  
-- The event_id column type was recently changed from INT to DECIMAL(40)  
-- without testing.
```

```
DROP TABLE logging_event_property  
DROP TABLE logging_event_exception  
DROP TABLE logging_event
```

```
CREATE TABLE logging_event  
(  
    timestmp    DECIMAL(20) NOT NULL,  
    formatted_message VARCHAR(4000) NOT NULL,  
    logger_name  VARCHAR(254) NOT NULL,  
    level_string VARCHAR(254) NOT NULL,  
    thread_name  VARCHAR(254),  
    reference_flag SMALLINT,  
    arg0         VARCHAR(254),  
    arg1         VARCHAR(254),  
    arg2         VARCHAR(254),  
    arg3         VARCHAR(254),  
  
    caller_filename VARCHAR(254) NOT NULL,  
    caller_class    VARCHAR(254) NOT NULL,  
    caller_method   VARCHAR(254) NOT NULL,  
    caller_line     CHAR(4) NOT NULL,  
    event_id        DECIMAL(40) NOT NULL identity,  
    PRIMARY KEY(event_id)  
)
```

```
CREATE TABLE logging_event_property  
(  
    event_id    DECIMAL(40) NOT NULL,  
    mapped_key  VARCHAR(254) NOT NULL,  
    mapped_value VARCHAR(1024),  
    PRIMARY KEY(event_id, mapped_key),  
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)  
)
```

```
CREATE TABLE logging_event_exception  
(  
    event_id    DECIMAL(40) NOT NULL,  
    i           SMALLINT NOT NULL,  
    trace_line  VARCHAR(254) NOT NULL,
```

```
PRIMARY KEY(event_id, i),
FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
)
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
jar/ch/qos/logback/classic/db/script/mssql.sql
```

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```

```
# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender.
#
# It is intended for HSQL databases. It has been tested on HSQL 1.8.07.
```

```
DROP TABLE logging_event_exception IF EXISTS;
DROP TABLE logging_event_property IF EXISTS;
DROP TABLE logging_event IF EXISTS;
```

```
CREATE TABLE logging_event (
  timestmp BIGINT NOT NULL,
  formatted_message LONGVARCHAR NOT NULL,
  logger_name VARCHAR(256) NOT NULL,
  level_string VARCHAR(256) NOT NULL,
  thread_name VARCHAR(256),
  reference_flag SMALLINT,
  arg0 VARCHAR(256),
  arg1 VARCHAR(256),
  arg2 VARCHAR(256),
  arg3 VARCHAR(256),
  caller_filename VARCHAR(256),
  caller_class VARCHAR(256),
  caller_method VARCHAR(256),
  caller_line CHAR(4),
  event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE logging_event_property (
  event_id BIGINT NOT NULL,
  mapped_key VARCHAR(254) NOT NULL,
  mapped_value LONGVARCHAR,
  PRIMARY KEY(event_id, mapped_key),
  FOREIGN KEY (event_id) REFERENCES logging_event(event_id));
```

```
CREATE TABLE logging_event_exception (  
  event_id BIGINT NOT NULL,  
  i SMALLINT NOT NULL,  
  trace_line VARCHAR(256) NOT NULL,  
  PRIMARY KEY(event_id, i),  
  FOREIGN KEY (event_id) REFERENCES logging_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-  
jar/ch/qos/logback/classic/db/script/hsqldb.sql
```

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-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender

--

-- It is intended for PostgreSQL databases.

```
DROP TABLE logging_event_property;  
DROP TABLE logging_event_exception;  
DROP TABLE logging_event;  
DROP SEQUENCE logging_event_id_seq;
```

```
CREATE SEQUENCE logging_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE logging_event  
(  
  timestmp    BIGINT NOT NULL,  
  formatted_message TEXT NOT NULL,  
  logger_name  VARCHAR(254) NOT NULL,  
  level_string VARCHAR(254) NOT NULL,  
  thread_name  VARCHAR(254),  
  reference_flag SMALLINT,  
  arg0         VARCHAR(254),  
  arg1         VARCHAR(254),  
  arg2         VARCHAR(254),  
  arg3         VARCHAR(254),  
  caller_filename VARCHAR(254) NOT NULL,  
  caller_class   VARCHAR(254) NOT NULL,  
  caller_method  VARCHAR(254) NOT NULL,  
  caller_line    CHAR(4) NOT NULL,
```

```
    event_id      BIGINT DEFAULT nextval('logging_event_id_seq') PRIMARY KEY
);
```

```
CREATE TABLE logging_event_property
(
    event_id      BIGINT NOT NULL,
    mapped_key    VARCHAR(254) NOT NULL,
    mapped_value  VARCHAR(1024),
    PRIMARY KEY(event_id, mapped_key),
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);
```

```
CREATE TABLE logging_event_exception
(
    event_id      BIGINT NOT NULL,
    i             SMALLINT NOT NULL,
    trace_line    VARCHAR(254) NOT NULL,
    PRIMARY KEY(event_id, i),
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
jar/ch/qos/logback/classic/db/script/postgresql.sql
```

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```
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```

```
--
```

```
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```

```
-- conditions.
```

```
-- This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender
```

```
-- for Sybase SQLAnywhere. Tested on SQLAnywhere 10.0.1.
```

```
DROP TABLE logging_event_property
DROP TABLE logging_event_exception
DROP TABLE logging_event
```

```
CREATE TABLE logging_event
(
    timestmp      bigint NOT NULL,
    formatted_message LONG VARCHAR NOT NULL,
    logger_name    VARCHAR(254) NOT NULL,
    level_string   VARCHAR(254) NOT NULL,
    thread_name    VARCHAR(254),
    reference_flag SMALLINT,
    arg0          VARCHAR(254),
```

```

arg1      VARCHAR(254),
arg2      VARCHAR(254),
arg3      VARCHAR(254),
caller_filename VARCHAR(254) NOT NULL,
caller_class VARCHAR(254)
NOT NULL,
caller_method VARCHAR(254) NOT NULL,
caller_line  VARCHAR(4) NOT NULL,
event_id    int NOT NULL DEFAULT AUTOINCREMENT,
PRIMARY KEY(event_id)
)

```

```

CREATE TABLE logging_event_property
(
event_id    int NOT NULL REFERENCES logging_event(event_id),
mapped_key  VARCHAR(254) NOT NULL,
mapped_value LONG VARCHAR,
PRIMARY KEY(event_id, mapped_key)
)

```

```

CREATE TABLE logging_event_exception
(
event_id    int NOT NULL REFERENCES logging_event(event_id) ,
i          SMALLINT NOT NULL,
trace_line  VARCHAR(254) NOT NULL,
PRIMARY KEY(event_id, i)
)

```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
jar/ch/qos/logback/classic/db/script/sybaseSqlAnywhere.sql
```

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#

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# conditions.

# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender.

#

# It is intended for MySQL databases. It has been tested on MySQL 5.1.37

# on Linux

BEGIN;

DROP TABLE IF EXISTS logging\_event\_property;

DROP TABLE IF EXISTS logging\_event\_exception;

```
DROP TABLE IF EXISTS logging_event;  
COMMIT;
```

```
BEGIN;  
CREATE TABLE logging_event  
(  
    timestmp    BIGINT NOT NULL,  
    formatted_message TEXT NOT NULL,  
    logger_name  VARCHAR(254) NOT NULL,  
    level_string VARCHAR(254) NOT NULL,  
    thread_name  VARCHAR(254),  
    reference_flag SMALLINT,  
    arg0         VARCHAR(254),  
    arg1         VARCHAR(254),  
    arg2         VARCHAR(254),  
    arg3  
        VARCHAR(254),  
    caller_filename VARCHAR(254) NOT NULL,  
    caller_class    VARCHAR(254) NOT NULL,  
    caller_method   VARCHAR(254) NOT NULL,  
    caller_line     CHAR(4) NOT NULL,  
    event_id       BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY  
);  
COMMIT;
```

```
BEGIN;  
CREATE TABLE logging_event_property  
(  
    event_id    BIGINT NOT NULL,  
    mapped_key  VARCHAR(254) NOT NULL,  
    mapped_value TEXT,  
    PRIMARY KEY(event_id, mapped_key),  
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)  
);  
COMMIT;
```

```
BEGIN;  
CREATE TABLE logging_event_exception  
(  
    event_id    BIGINT NOT NULL,  
    i          SMALLINT NOT NULL,  
    trace_line  VARCHAR(254) NOT NULL,  
    PRIMARY KEY(event_id, i),  
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)  
);  
COMMIT;
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-  
jar/ch/qos/logback/classic/db/script/mysql.sql
```

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```
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```

```
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```

```
#
```

```
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```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender
```

```
#
```

```
# It is intended for IBM DB2 databases.
```

```
#
```

```
# WARNING WARNING WARNING WARNING
```

```
# =====
```

```
# This SQL script has not been tested on an actual DB2
```

```
# instance. It may contain errors or even invalid SQL
```

```
# statements.
```

```
DROP TABLE logging_event_property;
```

```
DROP TABLE logging_event_exception;
```

```
DROP TABLE logging_event;
```

```
CREATE TABLE logging_event
```

```
(
```

```
  timestmp      BIGINT NOT NULL,
```

```
  formatted_message VARCHAR(4000) NOT NULL,
```

```
  logger_name   VARCHAR(254) NOT NULL,
```

```
  level_string  VARCHAR(254) NOT NULL,
```

```
  thread_name  VARCHAR(254),
```

```
  reference_flag SMALLINT,
```

```
  arg0
```

```
    VARCHAR(254),
```

```
  arg1        VARCHAR(254),
```

```
  arg2        VARCHAR(254),
```

```
  arg3        VARCHAR(254),
```

```
  caller_filename VARCHAR(254) NOT NULL,
```

```
  caller_class   VARCHAR(254) NOT NULL,
```

```
  caller_method  VARCHAR(254) NOT NULL,
```

```
  caller_line    CHAR(4) NOT NULL,
```

```
  event_id      INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
```

```
);
```

```
CREATE TABLE logging_event_property
```

```
(
```

```
  event_id      INTEGER NOT NULL,
```

```
mapped_key    VARCHAR(254) NOT NULL,  
mapped_value  VARCHAR(1024),  
PRIMARY KEY(event_id, mapped_key),  
FOREIGN KEY (event_id) REFERENCES logging_event(event_id)  
);
```

```
CREATE TABLE logging_event_exception  
(  
    event_id    INTEGER NOT NULL,  
    i           SMALLINT NOT NULL,  
    trace_line  VARCHAR(254) NOT NULL,  
    PRIMARY KEY(event_id, i),  
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)  
);
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-  
jar/ch/qos/logback/classic/db/script/db2.sql
```

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```
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--# conditions.  
--#  
--# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender.  
--#  
--# It is intended for SQLite3 databases. It has been tested on SQLite 3.7.4  
--# on Android ICS (4.0.3).
```

```
BEGIN;  
DROP TABLE IF EXISTS logging_event_property;  
DROP TABLE IF EXISTS logging_event_exception;  
DROP TABLE IF EXISTS logging_event;  
COMMIT;
```

```
BEGIN;  
CREATE TABLE logging_event  
(  
    timestmp    BIGINT NOT NULL,  
    formatted_message TEXT NOT NULL,  
    logger_name  VARCHAR(254) NOT NULL,  
    level_string VARCHAR(254) NOT NULL,  
    thread_name  VARCHAR(254),  
    reference_flag SMALLINT,
```



```

arg0      VARCHAR(254),
arg1      VARCHAR(254),
arg2
    VARCHAR(254),
arg3      VARCHAR(254),
caller_filename VARCHAR(254) NOT NULL,
caller_class  VARCHAR(254) NOT NULL,
caller_method VARCHAR(254) NOT NULL,
caller_line   CHAR(4) NOT NULL,
event_id     INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT
);
COMMIT;

```

```

BEGIN;
CREATE TABLE logging_event_property
(
    event_id    BIGINT NOT NULL,
    mapped_key  VARCHAR(254) NOT NULL,
    mapped_value TEXT,
    PRIMARY KEY(event_id, mapped_key),
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);
COMMIT;

```

```

BEGIN;
CREATE TABLE logging_event_exception
(
    event_id    BIGINT NOT NULL,
    i           SMALLINT NOT NULL,
    trace_line  VARCHAR(254) NOT NULL,
    PRIMARY KEY(event_id, i),
    FOREIGN KEY (event_id) REFERENCES logging_event(event_id)
);
COMMIT;

```

Found in path(s):

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/db/script/sqlite.sql

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- \*/

Found in path(s):

- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/ThrowableProxyConverter.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/html/UrlCssBuilder.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/net/LoggingEventPreSerializationTransformer.java
- \*
- /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/sift/SiftAction.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/ThreadConverter.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/joran/action/LoggerContextListenerAction.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/helpers/MDCInsertingServletFilter.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/Level.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/sift/AppenderFactoryUsingJoran.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/EnsureExceptionHandler.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/LineOfCallerConverter.java
- \*
- /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/ContextNameConverter.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/jul/LevelChangePropagator.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/spi/ThrowableProxyVO.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/sift/SiftingJoranConfigurator.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/joran/action/ConfigurationAction.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/sift/MDCBasedDiscriminator.java
- \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/turbo/TurboFilter.java
- \*
- /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/spi/LoggerRemoteView.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/net/SimpleSocketServer.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/net/server/RemoteAppenderServerRunner.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/net/SocketNode.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/selector/servlet/ContextDetachingSCL.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/joran/action/LoggerAction.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/net/server/RemoteAppenderServerListener.java  
 \*  
 /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/turbo/ReconfigureOnChangeFilter.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/boolex/OnErrorEvaluator.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/spi/LoggingEvent.java  
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 jar/ch/qos/logback/classic/selector/DefaultContextSelector.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/filter/ThresholdFilter.java  
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 jar/ch/qos/logback/classic/sift/SiftingAppender.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/spi/PackagingDataCalculator.java  
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 /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/org/slf4j/impl/StaticLoggerBinder.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/filter/LevelFilter.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/net/SSLSocketAppender.java  
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 jar/ch/qos/logback/classic/selector/servlet/LoggerContextFilter.java  
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 jar/ch/qos/logback/classic/net/server/ServerSocketAppender.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
 jar/ch/qos/logback/classic/pattern/FileOfCallerConverter.java  
 \* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
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* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
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* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
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* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
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* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
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* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-
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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/net/server/ServerSocketReceiver.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/jmx/MBeanUtil.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/db/names/TableName.java

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/opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/spi/LoggerContextAwareBase.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/util/CopyOnInheritThreadLocal.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/turbo/LRUMessageCache.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/LineSeparatorConverter.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/Util.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/net/SimpleSSLSocketServer.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
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jar/ch/qos/logback/classic/pattern/ClassNameOnlyAbbreviator.java  
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jar/ch/qos/logback/classic/joran/JoranConfigurator.java  
\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-  
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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/boolex/IEvaluator.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/SyslogStartConverter.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/LocalSequenceNumberConverter.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/db/names/SimpleDBNameResolver.java

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/opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/net/server/SSLServerSocketReceiver.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/util/ContextInitializer.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/boolex/JaninoEventEvaluator.java

\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/spi/ThrowableProxyUtil.java

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\* /opt/cola/permits/1421028596\_1663622576.6603036/0/logback-classic-1-2-9-sources-jar/ch/qos/logback/classic/pattern/PrefixCompositeConverter.java

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#

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# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender.

#

# It is intended for H2 databases.

DROP TABLE logging\_event\_exception IF EXISTS;

DROP TABLE logging\_event\_property IF EXISTS;

DROP TABLE logging\_event IF EXISTS;

```
CREATE TABLE logging_event (  
  timestamp BIGINT NOT NULL,  
  formatted_message LONGVARCHAR NOT NULL,  
  logger_name VARCHAR(256) NOT NULL,  
  level_string VARCHAR(256) NOT NULL,  
  thread_name VARCHAR(256),  
  reference_flag SMALLINT,  
  arg0 VARCHAR(256),  
  arg1 VARCHAR(256),  
  arg2 VARCHAR(256),  
  arg3 VARCHAR(256),  
  caller_filename VARCHAR(256),  
  caller_class VARCHAR(256),  
  caller_method VARCHAR(256),  
  caller_line CHAR(4),  
  event_id IDENTITY NOT NULL);
```

CREATE

```
TABLE logging_event_property (  
  event_id BIGINT NOT NULL,  
  mapped_key VARCHAR(254) NOT NULL,  
  mapped_value LONGVARCHAR,  
  PRIMARY KEY(event_id, mapped_key),  
  FOREIGN KEY (event_id) REFERENCES logging_event(event_id));
```

```
CREATE TABLE logging_event_exception (  
  event_id BIGINT NOT NULL,  
  message LONGVARCHAR NOT NULL,  
  exception_name VARCHAR(256) NOT NULL,  
  exception_message LONGVARCHAR,  
  stack_trace LONGVARCHAR,  
  event_time BIGINT NOT NULL,  
  event_id_identity IDENTITY NOT NULL);
```

```
event_id BIGINT NOT NULL,  
i SMALLINT NOT NULL,  
trace_line VARCHAR(256) NOT NULL,  
PRIMARY KEY(event_id, i),  
FOREIGN KEY (event_id) REFERENCES logging_event(event_id);
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-  
jar/ch/qos/logback/classic/db/script/h2.sql
```

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```
/**
```

```
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```

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*
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1421028596_1663622576.6603036/0/logback-classic-1-2-9-sources-  
jar/ch/qos/logback/classic/jmx/JMXConfigurator.java
```

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# 1.1070 d3 6.7.0

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## 1.1076 loader-utils 1.4.2

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## 1.1077 camelize 1.0.1

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## 1.1078 safe-regex-test 1.0.0

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## 1.1079 is-callable 1.2.7

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## 1.1080 react-redux 7.2.9

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## 1.1081 unicode-match-property-value-ecmascript 2.1.0

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## 1.1083 redux-thunk 2.4.2

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## 1.1084 decode-uri-component 0.2.2

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## 1.1085 styled-components 4.4.1

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```
/**
```

```
 * Copyright (c) 2013-present, Facebook, Inc.
```

```
 *
```

```
 * This source code is licensed under the MIT license found in the
```

```
 * LICENSE file in the root directory of this source tree.
```

```
 */
```

Found in path(s):

```
* /opt/cola/permits/1494594526_1676611124.5758018/0/styled-components-4-4-1-3-tgz/package/dist/styled-components.js
```

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```
> **CANARY:** This is the `canary` branch of `styled-components`. It is published under the  
Licensed under the MIT License, Copyright © 2016-present Glen Maddern and Maximilian Stoiber.
```

Found in path(s):

```
* /opt/cola/permits/1494594526_1676611124.5758018/0/styled-components-4-4-1-3-tgz/package/README.md
```

## 1.1086 dna-ui-utils 1.0.29

### 1.1086.1 Available under license :

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## 1.1087 react-list 0.8.17

## 1.1087.1 Available under license :

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## 1.1088 yargs 7.1.2

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# 1.1089 less 3.13.1

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```
{ "version": 3, "file": "less.min.js", "sources": [ "../src/less-browser/utils.js", "../src/less-  
browser/browser.js", "../node_modules/tslib/tslib.es6.js", "../src/less/data/colors.js", "../src/less/data/unit-  
conversions.js", "../src/less/data/index.js", "../src/less/tree/node.js", "../src/less/tree/color.js", "../src/less/tree/paren.js", "  
../src/less/tree/combinator.js", "../src/less/tree/element.js", "../src/less/constants.js", "../node_modules/is-  
what/dist/index.esm.js", "../node_modules/copy-anything/dist/index.esm.js", "../src/less/utils.js", "../src/less/less-  
error.js", "../src/less/tree/selector.js", "../src/less/tree/value.js", "../src/less/tree/keyword.js", "../src/less/tree/anonymous.  
js", "../src/less/tree/declaration.js", "../src/less/tree/debug-  
info.js", "../src/less/tree/comment.js", "../src/less/contexts.js", "../src/less/functions/function-  
registry.js", "../src/less/functions/default.js", "../src/less/tree/ruleset.js", "../src/less/tree/atrule.js", "../src/less/tree/detach-  
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ruleset.js", "../src/less/tree/unit.js", "../src/less/tree/dimension.js", "../src/less/tree/operation.js", "../src/less/tree/expressi-  
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caller.js", "../src/less/tree/call.js", "../src/less/tree/variable.js", "../src/less/tree/property.js", "../src/less/tree/attribute.js", "  
../src/less/tree/quoted.js", "../src/less/tree/url.js", "../src/less/tree/media.js", "../src/less/tree/import.js", "../src/less/tree/js-  
eval-  
node.js", "../src/less/tree/javascript.js", "../src/less/tree/assignment.js", "../src/less/tree/condition.js", "../src/less/tree/uni-  
code-descriptor.js", "../src/less/tree/negative.js", "../src/less/tree/extend.js", "../src/less/tree/variable-  
call.js", "../src/less/tree/namespace-value.js", "../src/less/tree/mixin-definition.js", "../src/less/tree/mixin-  
call.js", "../src/less/tree/index.js", "../src/less/logger.js", "../src/less/environment/environment.js", "../src/less/environme-  
nt/abstract-file-manager.js", "../src/less/environment/abstract-plugin-  
loader.js", "../src/less/visitors/visitor.js", "../src/less/visitors/import-sequencer.js", "../src/less/visitors/import-  
visitor.js", "../src/less/visitors/set-tree-visibility-visitor.js", "../src/less/visitors/extend-  
visitor.js", "../src/less/visitors/join-selector-visitor.js", "../src/less/visitors/to-css-  
visitor.js", "../src/less/visitors/index.js", "../src/less/parser/parser-  
input.js", "../src/less/parser/chunker.js", "../src/less/parser/parser.js", "../src/less/functions/boolean.js", "../src/less/functi-  
ons/color.js", "../src/less/functions/color-blending.js", "../src/less/functions/list.js", "../src/less/functions/math-  
helper.js", "../src/less/functions/math.js", "../src/less/functions/number.js", "../src/less/functions/string.js", "../src/less/fu-  
nctions/types.js", "../src/less/functions/index.js", "../src/less/functions/data-  
uri.js", "../src/less/functions/svg.js", "../src/less/transform-tree.js", "../src/less/plugin-manager.js", "../src/less-  
browser/file-manager.js", "../src/less/index.js", "../src/less/source-map-output.js", "../src/less/source-map-  
builder.js", "../src/less/parse-tree.js", "../src/less/import-  
manager.js", "../src/less/render.js", "../src/less/parse.js", "../src/less-browser/plugin-loader.js", "../src/less-  
browser/error-reporting.js", "../src/less-browser/bootstrap.js", "../src/less/default-options.js", "../src/less-browser/add-  
default-options.js", "../src/less-browser/index.js", "../src/less-browser/log-listener.js", "../src/less-  
browser/cache.js", "../src/less-browser/image-size.js"], "sourcesContent": ["\nexport  
function extractId(href) {\n  return href.replace(/^([a-z-]+:)?(?:\\/+)?/, "") // Remove protocol & domain\n    .replace(/(?:[?&]livereload=\\w+/, "") // Remove LiveReload cachebuster\n    .replace(/^\\//, "") //  
Remove root\n    .replace(/^(\\.[a-zA-Z]+)$/, "") // Remove simple extension\n    .replace(/([^\.\w-]+)/g, '-  
)' // Replace illegal characters\n    .replace(/\\./g, ':');
```

```

    // Replace dots with colons(for valid id)\n\n\nexport function addDataAttr(options, tag) {\n  for
(const opt in tag.dataset) {\n    if (tag.dataset.hasOwnProperty(opt)) {\n      if (opt === 'env' || opt ===
'dumpLineNumbers' || opt === 'rootpath' || opt === 'errorReporting') {\n        options[opt] = tag.dataset[opt];\n
    } else {\n      try {\n        options[opt] = JSON.parse(tag.dataset[opt]);\n      }\n    catch (_) {} \n    } \n  } \n} \n", "import * as utils from './utils';\n\nexport default {\n  createCSS:
function (document, styles, sheet) {\n    // Strip the query-string\n    const href = sheet.href || ""; \n    // If
there is no title set, use the filename, minus the extension\n    const id = `less:${sheet.title ||
utils.extractId(href)}`; \n    // If this has already been inserted into the DOM, we may need to replace it\n
const oldStyleNode
= document.getElementById(id); \n    let keepOldStyleNode = false; \n    // Create a new stylesheet node for
insertion or (if necessary) replacement\n    const styleNode = document.createElement('style'); \n
styleNode.setAttribute('type', 'text/css'); \n    if (sheet.media) {\n      styleNode.setAttribute('media',
sheet.media); \n    } \n    styleNode.id = id; \n    if (!styleNode.styleSheet) {\n
styleNode.appendChild(document.createTextNode(styles)); \n    // If new contents match contents of
oldStyleNode, don't replace oldStyleNode\n    keepOldStyleNode = (oldStyleNode !== null &&
oldStyleNode.childNodes.length > 0 && styleNode.childNodes.length > 0 && \n
oldStyleNode.firstChild.nodeValue === styleNode.firstChild.nodeValue); \n    } \n    const head =
document.getElementsByTagName('head')[0]; \n    // If there is no oldStyleNode, just append; otherwise, only
append if we need\n
    // to replace oldStyleNode with an updated stylesheet\n    if (oldStyleNode === null || keepOldStyleNode ===
false) {\n      const nextEl = sheet && sheet.nextSibling || null; \n      if (nextEl) {\n
nextEl.parentNode.insertBefore(styleNode, nextEl); \n      } else {\n        head.appendChild(styleNode); \n
      } \n    } \n    if (oldStyleNode && keepOldStyleNode === false) {\n
oldStyleNode.parentNode.removeChild(oldStyleNode); \n    } \n    // For IE.\n    // This needs to happen
*after* the style element is added to the DOM, otherwise IE 7 and 8 may crash.\n    // See
http://social.msdn.microsoft.com/Forums/en-US/7e081b65-878a-4c22-8e68-c10d39c2ed32/internet-explorer-
crashes-appending-style-element-to-head\n    if (styleNode.styleSheet) {\n      try {\n
styleNode.styleSheet.cssText = styles; \n      } catch (e) {\n        throw new Error('Couldn\\t reassign
styleSheet.cssText.');

```



```

__assign = function() {\r\n  __assign = Object.assign || function __assign(t) {\r\n    for (var s, i = 1, n =
arguments.length; i < n; i++) {\r\n      s = arguments[i];\r\n      for (var p in s) if
(Object.prototype.hasOwnProperty.call(s,
p)) t[p] = s[p];\r\n    }\r\n    return t;\r\n  }\r\n  return __assign.apply(this, arguments);\r\n}\r\n\r\nexport
function __rest(s, e) {\r\n  var t = {};\r\n  for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) &&
e.indexOf(p) < 0)\r\n    t[p] = s[p];\r\n  if (s != null && typeof Object.getPrototypeOfSymbols ===
\r\n  \"function\")\r\n    for (var i = 0, p = Object.getPrototypeOfSymbols(s); i < p.length; i++) {\r\n      if
(e.indexOf(p[i]) < 0 && Object.prototype.propertyIsEnumerable.call(s, p[i]))\r\n        t[p[i]] = s[p[i];\r\n
}\r\n  return t;\r\n}\r\n\r\nexport function __decorate(decorators, target, key, desc) {\r\n  var c = arguments.length,
r = c < 3 ? target : desc === null ? desc = Object.getPrototypeOfDescriptor(target, key) : desc, d;\r\n  if (typeof
Reflect === \"object\" && typeof Reflect.decorate === \"function\") r = Reflect.decorate(decorators, target, key,
desc);\r\n  else for (var i = decorators.length
- 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) : d(target, key)) || r;\r\n  return c > 3
&& r && Object.defineProperty(target, key, r, r);\r\n}\r\n\r\nexport function __param(paramIndex, decorator) {\r\n
return function (target, key) { decorator(target, key, paramIndex); }\r\n}\r\n\r\nexport function
__metadata(metadataKey, metadataValue) {\r\n  if (typeof Reflect === \"object\" && typeof Reflect.metadata ===
\r\n  \"function\") return Reflect.metadata(metadataKey, metadataValue);\r\n}\r\n\r\nexport function __awaiter(thisArg,
_arguments, P, generator) {\r\n  function adopt(value) { return value instanceof P ? value : new P(function
(resolve) { resolve(value); }); }\r\n  return new (P || (P = Promise))(function (resolve, reject) {\r\n    function
fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); }\r\n    function rejected(value) { try {
step(generator[\"throw\"](value)); } catch (e) { reject(e);
}\r\n    function step(result) { result.done ? resolve(result.value) : adopt(result.value).then(fulfilled, rejected);
}\r\n    step((generator = generator.apply(thisArg, _arguments || [])).next());\r\n  });\r\n}\r\n\r\nexport function
__generator(thisArg, body) {\r\n  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [],
ops: [] }, f, y, t, g;\r\n  return g = { next: verb(0), \"throw\": verb(1), \"return\": verb(2) }, typeof Symbol ===
\r\n  \"function\" && (g[Symbol.iterator] = function() { return this; }), g;\r\n  function verb(n) { return function (v) {
return step([n, v]); }; }\r\n  function step(op) {\r\n    if (f) throw new TypeError(\"Generator is already
executing.\");\r\n    while (1) try {\r\n      if (f = 1, y && (t = op[0] & 2 ? y[\"return\"] : op[0] ? y[\"throw\"] ||
((t = y[\"return\"] && t.call(y), 0) : y.next) && !(t = t.call(y, op[1])).done) return t;\r\n      if (y = 0, t) op =
[op[0] &
2, t.value];\r\n      switch (op[0]) {\r\n        case 0: case 1: t = op; break;\r\n        case 4: _label++;
return { value: op[1], done: false }; \r\n        case 5: _label++; y = op[1]; op = [0]; continue;\r\n        case 7:
op = _ops.pop(); _trys.pop(); continue;\r\n        default:\r\n          if (!(t = _trys, t = t.length > 0 &&
t[t.length - 1] && (op[0] === 6 || op[0] === 2))) { _ = 0; continue; }\r\n          if (op[0] === 3 && (!t || (op[1]
> t[0] && op[1] < t[3]))) { _label = op[1]; break; }\r\n          if (op[0] === 6 && _label < t[1]) { _label =
t[1]; t = op; break; }\r\n          if (t && _label < t[2]) { _label = t[2]; _ops.push(op); break; }\r\n          if (t[2]) _ops.pop();\r\n          _trys.pop(); continue;\r\n          }\r\n          op = body.call(thisArg, _);\r\n
}\r\n    } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }\r\n    if
(op[0] & 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true }; }\r\n  }\r\n}\r\n\r\nexport function
__createBinding(o, m, k, k2) {\r\n  if (k2 === undefined) k2 = k;\r\n  o[k2] = m[k];\r\n}\r\n\r\nexport function
__exportStar(m, exports) {\r\n  for (var p in m) if (p !== \"default\" && !exports.hasOwnProperty(p)) exports[p] =
m[p];\r\n}\r\n\r\nexport function __values(o) {\r\n  var s = typeof Symbol === \"function\" && Symbol.iterator, m
= s && o[s], i = 0;\r\n  if (m) return m.call(o);\r\n  if (o && typeof o.length === \"number\") return {\r\n
next: function () {\r\n      if (o && i >= o.length) o = void 0;\r\n      return { value: o && o[i++], done: !o
};\r\n    }\r\n  };\r\n  throw new TypeError(s ? \"Object is not iterable.\" : \"Symbol.iterator is not
defined.\");\r\n}\r\n\r\nexport function __read(o, n) {\r\n  var m = typeof Symbol === \"function\" &&
o[Symbol.iterator];\r\n  if (!m) return o;\r\n  var i = m.call(o), r,

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'forestgreen': '#228b22',\n 'fuchsia': '#ff00ff',\n 'gainsboro': '#dcdcdc',\n 'ghostwhite': '#f8f8ff',\n
'gold': '#ffd700',\n 'goldenrod': '#daa520',\n 'gray': '#808080',\n 'grey': '#808080',\n 'green': '#008000',\n
'greenyellow': '#adff2f',\n 'honeydew': '#0ffff0',\n 'hotpink': '#ff69b4',\n 'indianred': '#cd5c5c',\n
'indigo': '#4b0082',\n 'ivory': '#ffff0',\n 'khaki': '#f0e68c',\n 'lavender': '#e6e6fa',\n 'lavenderblush': '#fff0f5',\n
'lawngreen': '#7cfc00',\n 'lemonchiffon': '#ffffac',\n
'lightblue': '#add8e6',\n 'lightcoral': '#f08080',\n 'lightcyan': '#e0ffff',\n 'lightgoldenrodyellow': '#fafad2',\n
'lightgray': '#d3d3d3',\n 'lightgrey': '#d3d3d3',\n 'lightgreen': '#90ee90',\n 'lightpink': '#ffb6c1',\n
'lightsalmon': '#ffa07a',\n 'lightseagreen': '#20b2aa',\n 'lightskyblue': '#87cefa',\n 'lightslategray': '#778899',\n
'lightslategrey': '#778899',\n 'lightsteelblue': '#b0c4de',\n 'lightyellow': '#ffffe0',\n 'lime': '#00ff00',\n
'limegreen': '#32cd32',\n 'linen': '#faf0e6',\n 'magenta': '#ff00ff',\n 'maroon': '#800000',\n
'mediumaquamarine': '#66cdaa',\n 'mediumblue': '#0000cd',\n 'mediumorchid': '#ba55d3',\n
'mediumpurple': '#9370d8',\n 'mediumseagreen': '#3cb371',\n 'mediumslateblue': '#7b68ee',\n
'mediumspringgreen': '#00fa9a',\n 'mediumturquoise': '#48d1cc',\n 'mediumvioletred': '#c71585',\n
'midnightblue': '#191970',\n 'mintcream': '#f5fffa',\n 'mistyrose': '#ffe4e1',\n 'moccasin': '#ffe4b5',\n
'navajowhite': '#ffdead',\n 'navy': '#000080',\n 'oldlace': '#fdf5e6',\n 'olive': '#808000',\n 'olivedrab': '#6b8e23',\n
'orange': '#ffa500',\n 'orangered': '#ff4500',\n 'orchid': '#da70d6',\n 'palegoldenrod': '#eee8aa',\n
'palegreen': '#98fb98',\n 'paleturquoise': '#afeeee',\n 'palevioletred': '#d87093',\n 'papayawhip': '#ffefd5',\n
'peachpuff': '#ffdab9',\n 'peru': '#cd853f',\n 'pink': '#ffc0cb',\n 'plum': '#dda0dd',\n 'powderblue': '#b0e0e6',\n
'purple': '#800080',\n 'rebeccapurple': '#663399',\n 'red': '#ff0000',\n 'rosybrown': '#bc8f8f',\n
'royalblue': '#4169e1',\n 'saddlebrown': '#8b4513',\n 'salmon': '#fa8072',\n 'sandybrown': '#f4a460',\n
'seagreen': '#2e8b57',\n 'seashell': '#fff5ee',\n 'sienna': '#a0522d',\n 'silver': '#c0c0c0',\n 'skyblue': '#87ceeb',\n
'slateblue': '#6a5acd',\n 'slategray': '#708090',\n 'slategrey': '#708090',\n 'snow': '#fffafa',\n
'springgreen': '#00ff7f',\n 'steelblue': '#4682b4',\n
'tan': '#d2b48c',\n 'teal': '#008080',\n 'thistle': '#d8bfd8',\n 'tomato': '#ff6347',\n 'turquoise': '#40e0d0',\n
'violet': '#ee82ee',\n 'wheat': '#f5deb3',\n 'white': '#ffffff',\n 'whitesmoke': '#f5f5f5',\n 'yellow': '#ffff00',\n
'yellowgreen': '#9acd32'\n};", "export default {\n length: {\n 'm': 1,\n 'cm': 0.01,\n 'mm': 0.001,\n
'in': 0.0254,\n 'px': 0.0254 / 96,\n 'pt': 0.0254 / 72,\n 'pc': 0.0254 / 72 * 12\n },\n duration: {\n
's': 1,\n 'ms': 0.001\n },\n angle: {\n 'rad': 1 / (2 * Math.PI),\n 'deg': 1 / 360,\n 'grad': 1 / 400,\n
'turn': 1\n }\n};", "import colors from './colors';\nimport unitConversions from './unit-conversions';\n\nexport
default { colors, unitConversions };\n", "/*\n * The reason why Node is a class and other nodes simply do not
extend\n * from Node (since we're transpiling) is due to this issue:\n * \n *
https://github.com/less/less.js/issues/3434\n
*\n\nclass Node {\n constructor() {\n this.parent = null;\n this.visibilityBlocks = undefined;\n
this.nodeVisible = undefined;\n this.rootNode = null;\n this.parsed = null;\n\n const self = this;\n
Object.defineProperty(this, 'currentFileInfo', {\n get: function() { return self.fileInfo(); }\n });\n
Object.defineProperty(this, 'index', {\n get: function() { return self.getIndex(); }\n });\n\n }\n\n
setParent(nodes, parent) {\n function set(node) {\n if (node && node instanceof Node) {\n
node.parent = parent;\n }\n }\n if (Array.isArray(nodes)) {\n nodes.forEach(set);\n }\n
else {\n set(nodes);\n }\n }\n\n getIndex() {\n return this._index || (this.parent &&
this.parent.getIndex()) || 0;\n }\n\n fileInfo() {\n return this._fileInfo || (this.parent
&& this.parent.fileInfo()) || {};\n }\n\n isRulesetLike() {\n return false;\n }\n\n toCSS(context) {\n
const str = [];\n this.genCSS(context, {\n add: function(chunk, fileInfo, index) {\n
str.push(chunk);\n },\n isEmpty: function () {\n return str.length === 0;\n }\n
});\n return str.join("");\n }\n\n genCSS(context, output) {\n output.add(this.value);\n }\n\n
accept(visitor) {\n this.value = visitor.visit(this.value);\n }\n\n eval() { return this; }\n\n
_operate(context, op, a, b) {\n switch (op) {\n case '+': return a + b;\n case '-': return a - b;\n
case '*': return a * b;\n case '/': return a / b;\n }\n }\n\n fround(context, value) {\n const precision = context &&
context.numPrecision;\n // add \"epsilon\" to ensure numbers like 1.000000005 (represented

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as 1.000000004999...) are properly rounded:\n    return (precision) ? Number((value + 2e-16).toFixed(precision))
: value;\n } \n\n // Returns true if this node represents root of ast imported by reference\n blocksVisibility() {\n
  if (this.visibilityBlocks === null) {\n    this.visibilityBlocks = 0;\n  } \n    return this.visibilityBlocks !==
0;\n } \n\n addVisibilityBlock() {\n  if (this.visibilityBlocks === null) {\n    this.visibilityBlocks = 0;\n
} \n    this.visibilityBlocks = this.visibilityBlocks + 1;\n } \n\n removeVisibilityBlock() {\n  if
(this.visibilityBlocks === null) {\n    this.visibilityBlocks = 0;\n  } \n    this.visibilityBlocks =
this.visibilityBlocks - 1;\n } \n\n // Turns on node visibility - if called node will be shown in output regardless\n
// of whether it comes from import by reference or not\n ensureVisibility() {\n  this.nodeVisible = true;\n
} \n\n
  // Turns off node visibility - if called node will NOT be shown in output regardless\n // of whether it comes
from import by reference or not\n ensureInvisibility() {\n  this.nodeVisible = false;\n } \n\n // return
values:\n // false - the node must not be visible\n // true - the node must be visible\n // undefined or null - the
node has the same visibility as its parent\n isVisible() {\n  return this.nodeVisible;\n } \n\n visibilityInfo()
{\n  return {\n    visibilityBlocks: this.visibilityBlocks,\n    nodeVisible: this.nodeVisible\n  }; \n
} \n\n copyVisibilityInfo(info) {\n  if (!info) {\n    return;\n  } \n    this.visibilityBlocks =
info.visibilityBlocks;\n    this.nodeVisible = info.nodeVisible;\n  } \n} \n\n\nNode.compare = (a, b) => {\n /*
returns:\n -1: a < b\n 0: a = b\n 1: a > b\n and *any* other value for a != b (e.g. undefined, NaN, -2 etc.)
*/ \n\n
  if ((a.compare) && \n // for \"symmetric results\" force toCSS-based comparison\n // of Quoted or
Anonymous if either value is one of those\n !(b.type === 'Quoted' || b.type === 'Anonymous')) {\n  return
a.compare(b);\n } else if (b.compare) {\n  return -b.compare(a);\n } else if (a.type !== b.type) {\n  return
undefined;\n } \n\n a = a.value;\n b = b.value;\n if (!Array.isArray(a)) {\n  return a === b ? 0 :
undefined;\n } \n  if (a.length !== b.length) {\n  return undefined;\n } \n  for (let i = 0; i < a.length; i++) {\n
  if (Node.compare(a[i], b[i]) !== 0) {\n    return undefined;\n  } \n } \n  return
0;\n}; \n\n\nNode.numericCompare = (a, b) => a < b ? -1\n : a === b ? 0\n : a > b ? 1 : undefined;\n\nexport
default Node;\n\", \"import Node from './node';\nimport colors from './data/colors'; \n\n\n\n// RGB Colors - #fff014,
#eee\n\n\nconst Color = function(rgba, originalForm) {\n
  const self = this;\n  // \n // The end goal here, is to parse the arguments\n // into an integer triplet, such as
`128, 255, 0`\n  // \n // This facilitates operations and conversions.\n  // \n  if (Array.isArray(rgba)) {\n
this.rgba = rgba;\n  } else if (rgba.length >= 6) {\n    this.rgba = [];\n    rgba.match(/.{2}/g).map((c, i) => {\n
if (i < 3) {\n      self.rgba.push(parseInt(c, 16));\n    } else {\n      self.alpha = (parseInt(c, 16)) /
255;\n    } \n  }); \n  } else {\n    this.rgba = [];\n    rgba.split(\" \").map((c, i) => {\n      if (i < 3) {\n
self.rgba.push(parseInt(c + c, 16));\n    } else {\n      self.alpha = (parseInt(c + c, 16)) / 255;\n    } \n
}); \n  } \n  this.alpha = this.alpha || (typeof a === 'number' ? a : 1);\n  if (typeof originalForm !==
'undefined') {\n    this.value = originalForm;\n  } \n}; \n\n\nColor.prototype
= new Node(); \n\n\nColor.prototype.luma = function() {\n  let r = this.rgba[0] / 255;\n  let g = this.rgba[1] / 255;\n
let b = this.rgba[2] / 255;\n  r = (r <= 0.03928) ? r / 12.92 : Math.pow(((r + 0.055) / 1.055), 2.4);\n  g = (g <=
0.03928) ? g / 12.92 : Math.pow(((g + 0.055) / 1.055), 2.4);\n  b = (b <= 0.03928) ? b / 12.92 : Math.pow(((b +
0.055) / 1.055), 2.4);\n  return 0.2126 * r + 0.7152 * g + 0.0722 * b;\n}; \n\n\nColor.prototype.genCSS =
function(context, output) {\n  output.add(this.toCSS(context)); \n}; \n\n\nColor.prototype.toCSS = function(context,
doNotCompress) {\n  const compress = context && context.compress && !doNotCompress;\n  let color;\n  let
alpha;\n  let colorFunction;\n  let args = [];\n  // `value` is set if this color was originally\n // converted from a
named color string so we need\n // to respect this and try to output named color too.\n  alpha =
this.fround(context, this.alpha);\n  if (this.value) {\n    if (this.value.indexOf('rgb')
=== 0) {\n      if (alpha < 1) {\n        colorFunction = 'rgba';\n      } \n    } else if
(this.value.indexOf('hsl') === 0) {\n      if (alpha < 1) {\n        colorFunction = 'hsla';\n      } \n    } else {\n
colorFunction = 'hsl';\n    } \n  } else {\n    return this.value;\n  } \n  } \n  } else {\n    if (alpha < 1)
{\n    colorFunction = 'rgba';\n  } \n } \n } \n\n  switch (colorFunction) {\n    case 'rgba':\n      args =

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this.rgb.map(c => clamp(Math.round(c), 255)).concat(clamp(alpha, 1));\n      break;\n      case 'hsla':\n      args.push(clamp(alpha, 1));\n      case 'hsl':\n      color = this.toHSL();\n      args = [\n      this.fround(context, color.h),\n      `${this.fround(context, color.s * 100)}%`,\n      `${this.fround(context, color.l * 100)}%`\n      ].concat(args);\n      }\n      if (colorFunction)\n      {\n      // Values are capped between `0` and `255`, rounded and zero-padded.\n      return\n      `${colorFunction}(${args.join(' ', ' ')})`;}\n      }\n      color = this.toRGB();\n      if (compress) {\n      const splitcolor = color.split(",");\n      // Convert color to short format\n      if (splitcolor[1] === splitcolor[2]\n      && splitcolor[3] === splitcolor[4] && splitcolor[5] === splitcolor[6]) {\n      color =\n      `#${splitcolor[1]}${splitcolor[3]}${splitcolor[5]}`;\n      }\n      }\n      return color;\n      }\n      }\n      // Operations have to\n      be done per-channel, if not, channels will spill onto each other. Once we have\n      our result, in the form of an\n      integer triplet, we create a new Color node to hold the result.\n      Color.prototype.operate = function(context, op,\n      other) {\n      const rgb = new Array(3);\n      const alpha = this.alpha * (1 - other.alpha) + other.alpha;\n      for (let c =\n      0; c < 3; c++) {\n      rgb[c] = this._operate(context, op, this.rgb[c],\n      other.rgb[c]);\n      }\n      return new Color(rgb, alpha);\n      }\n      Color.prototype.toRGB = function() {\n      return\n      toHex(this.rgb);\n      }\n      Color.prototype.toHSL = function() {\n      const r = this.rgb[0] / 255;\n      const g = this.rgb[1]\n      / 255;\n      const b = this.rgb[2] / 255;\n      const a = this.alpha;\n      const max = Math.max(r, g, b);\n      const min =\n      Math.min(r, g, b);\n      let h;\n      let s;\n      const l = (max + min) / 2;\n      const d = max - min;\n      if (max === min)\n      {\n      h = s = 0;\n      } else {\n      s = l > 0.5 ? d / (2 - max - min) : d / (max + min);\n      switch (max) {\n      case r: h = (g - b) / d + (g < b ? 6 : 0); break;\n      case g: h = (b - r) / d + 2; break;\n      case b: h =\n      (r - g) / d + 4; break;\n      }\n      h /= 6;\n      }\n      return { h: h * 360, s, l, a };\n      }\n      // Adapted from\n      http://mijackson.com/2008/02/rgb-to-hsl-and-rgb-to-hsv-color-model-conversion-algorithms-in-\n      javascript\n      Color.prototype.toHSV\n      = function() {\n      const r = this.rgb[0] / 255;\n      const g = this.rgb[1] / 255;\n      const b = this.rgb[2] / 255;\n      const a = this.alpha;\n      const max = Math.max(r, g, b);\n      const min = Math.min(r, g, b);\n      let h;\n      let s;\n      const v = max;\n      const d = max - min;\n      if (max === 0) {\n      s = 0;\n      } else {\n      s = d / max;\n      }\n      if (max === min) {\n      h = 0;\n      } else {\n      switch (max) {\n      case r: h = (g - b) / d + (g < b ? 6 : 0);\n      break;\n      case g: h = (b - r) / d + 2; break;\n      case b: h = (r - g) / d + 4; break;\n      }\n      h /= 6;\n      }\n      return { h: h * 360, s, v, a };\n      }\n      Color.prototype.toARGB = function() {\n      return toHex([this.alpha * 255].concat(this.rgb));\n      }\n      Color.prototype.compare = function(x) {\n      return (x.rgb &&\n      x.rgb[0] ===\n      this.rgb[0] &&\n      x.rgb[1] === this.rgb[1] &&\n      x.rgb[2] === this.rgb[2] &&\n      x.alpha === this.alpha) ? 0 : undefined;\n      }\n      Color.prototype.type = 'Color';\n      function clamp(v, max) {\n      return Math.min(Math.max(v, 0), max);\n      }\n      function toHex(v) {\n      return `#${v.map(c => {\n      c =\n      clamp(Math.round(c), 255);\n      return (c < 16 ? '0' : '') + c.toString(16);\n      }).join("")}`;\n      }\n      Color.fromKeyword = keyword => {\n      let c;\n      const key = keyword.toLowerCase();\n      if\n      (colors.hasOwnProperty(key)) {\n      c = new Color(colors[key].slice(1));\n      } else if (key === 'transparent')\n      {\n      c = new Color([0, 0, 0], 0);\n      }\n      if (c) {\n      c.value = keyword;\n      return c;\n      }\n      }\n      \n      export\n      default Color;\n      "import Node from './node';\n      const Paren = function(node) {\n      this.value =\n      node;\n      }\n      Paren.prototype = new Node();\n      Paren.prototype.genCSS = function(context, output) {\n      output.add('(');\n      this.value.genCSS(context, output);\n      output.add(')');\n      }\n      Paren.prototype.eval =\n      function(context)\n      {\n      return new Paren(this.value.eval(context));\n      }\n      Paren.prototype.type = 'Paren';\n      \n      export default\n      Paren;\n      "import Node from './node';\n      const _noSpaceCombinators = {\n      "": true,\n      "'": true,\n      "|":\n      true\n      };\n      const Combinator = function(value) {\n      if (value === '|') {\n      this.value = '|';\n      this.emptyOrWhitespace = true;\n      } else {\n      this.value = value ? value.trim() : '';\n      this.emptyOrWhitespace = this.value === '';\n      }\n      }\n      Combinator.prototype = new\n      Node();\n      Combinator.prototype.genCSS = function(context, output) {\n      const spaceOrEmpty =\n      (context.compress || _noSpaceCombinators[this.value]) ? '' : ' '; \n      output.add(spaceOrEmpty + this.value +\n      spaceOrEmpty);\n      }\n      Combinator.prototype.type = 'Combinator';\n      \n      export default\n      Combinator;\n      "import Node

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from './node';\nimport Paren from './paren';\nimport Combinator from './combinator';\n\nconst Element =
function(combinator, value, isVariable, index, currentFileInfo, visibilityInfo)
{\n  this.combinator = combinator instanceof Combinator ?\n    combinator : new Combinator(combinator);\n\n  if (typeof value === 'string') {\n    this.value = value.trim();\n  } else if (value) {\n    this.value = value;\n  }
else {\n    this.value = ";\n  }\n  this.isVariable = isVariable;\n  this._index = index;\n  this._fileInfo =
currentFileInfo;\n  this.copyVisibilityInfo(visibilityInfo);\n  this.setParent(this.combinator,
this);\n};\n\nElement.prototype = new Node();\n\nElement.prototype.accept = function(visitor) {\n  const value =
this.value;\n  this.combinator = visitor.visit(this.combinator);\n  if (typeof value === 'object') {\n    this.value =
visitor.visit(value);\n  }\n};\n\nElement.prototype.eval = function(context) {\n  return new
Element(this.combinator,\n    this.value.eval ? this.value.eval(context) : this.value,\n    this.isVariable,\n    this.getIndex(),\n    this.fileInfo(), this.visibilityInfo());\n};\n\nElement.prototype.clone
= function() {\n  return new Element(this.combinator,\n    this.value,\n    this.isVariable,\n    this.getIndex(),\n    this.fileInfo(), this.visibilityInfo());\n};\n\nElement.prototype.genCSS = function(context,
output) {\n  output.add(this.toCSS(context), this.fileInfo(), this.getIndex());\n};\n\nElement.prototype.toCSS =
function(context = {}) {\n  let value = this.value;\n  const firstSelector = context.firstSelector;\n  if (value
instanceof Paren) {\n    // selector in parens should not be affected by outer selector\n    // flags (breaks only
interpolated selectors - see #1973)\n    context.firstSelector = true;\n  }\n  value = value.toCSS ?
value.toCSS(context) : value;\n  context.firstSelector = firstSelector;\n  if (value === "&&
this.combinator.value.charAt(0) === '&') {\n    return ";\n  } else {\n    return this.combinator.toCSS(context)
+ value;\n  }\n};\n\nElement.prototype.type
= 'Element';\n\nexport default Element;\n\n",\n\nexport const Math = {\n  ALWAYS: 0,\n  PARENS_DIVISION: 1,\n  PARENS: 2,\n  STRICT_LEGACY: 3\n};\n\nexport const RewriteUrls = {\n  OFF: 0,\n  LOCAL: 1,\n  ALL:
2\n};\n\n/**\r\n * Returns the object type of the given payload\r\n * @param {*} payload\r\n * @returns
{string}\r\n */\r\nfunction getType(payload) {\r\n  return Object.prototype.toString.call(payload).slice(8, -
1);\r\n}\r\n/**\r\n * Returns whether the payload is undefined\r\n * @param {*} payload\r\n * @returns
{payload is undefined}\r\n */\r\nfunction isUndefined(payload) {\r\n  return getType(payload) ===
'Undefined';\r\n}\r\n/**\r\n * Returns whether the payload is null\r\n * @param {*} payload\r\n * @returns
{payload is null}\r\n */\r\nfunction isNull(payload) {\r\n  return getType(payload) === 'Null';\r\n}\r\n/**\r\n *
Returns whether the payload is a plain JavaScript object (excluding special classes or objects with other
prototypes)\r\n * @param {*} payload\r\n * @returns {payload is Record<string, any>}\r\n */\r\nfunction
isPlainObject(payload) {\r\n  if (getType(payload) !== 'Object')\r\n    return false;\r\n  return
payload.constructor === Object && Object.getPrototypeOf(payload) === Object.prototype;\r\n}\r\n/**\r\n *
Returns whether the payload is a plain JavaScript object (excluding special classes or objects with other
prototypes)\r\n * @param {*} payload\r\n * @returns {payload is Record<string, any>}\r\n */\r\nfunction
isObject(payload) {\r\n  return isPlainObject(payload);\r\n}\r\n/**\r\n * Returns whether the payload is an empty
object (excluding special classes or objects with other prototypes)\r\n * @param {*} payload\r\n * @returns
{payload is { [K in any]: never } }\r\n */\r\nfunction isEmptyObject(payload) {\r\n  return isPlainObject(payload)
&& Object.keys(payload).length === 0;\r\n}\r\n/**\r\n * Returns whether the payload is an any kind of object
(including
special classes or objects with different prototypes)\r\n * @param {*} payload\r\n * @returns {payload is
Record<string, any>}\r\n */\r\nfunction isAnyObject(payload) {\r\n  return getType(payload) ===
'Object';\r\n}\r\n/**\r\n * Returns whether the payload is an object like a type passed in <>\r\n * Usage:
isObjectLike<id: any>(payload) // will make sure it's an object and has an `id` prop.\r\n * @template T this
must be passed in <>\r\n * @param {*} payload\r\n * @returns {payload is T}\r\n */\r\nfunction
isObjectLike(payload) {\r\n  return isAnyObject(payload);\r\n}\r\n/**\r\n * Returns whether the payload is a
function (regular or async)\r\n * @param {*} payload\r\n * @returns {payload is AnyFunction}\r\n */\r\nfunction
isFunction(payload) {\r\n  return typeof payload === 'function';\r\n}\r\n/**\r\n * Returns whether

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the payload is an array\r\n \* \r\n \* @param {any} payload\r\n \* @returns {payload is any[]}\r\n \* \r\n\r\nfunction isArray(payload) {\r\n

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    return getType(payload) === 'Array';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a an array with at least 1
item\r\n * \r\n * @param {*} payload\r\n * @returns {payload is any[]}\r\n * \r\n\r\nfunction isFullArray(payload) {\r\n
    return isArray(payload) && payload.length > 0;\r\n}\r\n\r\n**\r\n * Returns whether the payload is a an empty
array\r\n * \r\n * @param {*} payload\r\n * @returns {payload is []}\r\n * \r\n\r\nfunction isEmptyArray(payload) {\r\n
    return isArray(payload) && payload.length === 0;\r\n}\r\n\r\n**\r\n * Returns whether the payload is a string\r\n * \r\n
* @param {*} payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction isString(payload) {\r\n    return
    getType(payload) === 'String';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a string, BUT returns false for "\r\n
* \r\n * @param {*} payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction isFullString(payload) {\r\n    return
    isString(payload) && payload !== '';\r\n}\r\n\r\n**\r\n * Returns whether the
    payload is "\r\n * \r\n * @param {*} payload\r\n * @returns {payload is string}\r\n * \r\n\r\nfunction
    isEmptyString(payload) {\r\n    return payload === '';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a number (but
not NaN)\r\n * \r\n * This will return `false` for `NaN`!\r\n * \r\n * @param {*} payload\r\n * @returns {payload is
number}\r\n * \r\n\r\nfunction isNumber(payload) {\r\n    return getType(payload) === 'Number' &&
    !isNaN(payload);\r\n}\r\n\r\n**\r\n * Returns whether the payload is a boolean\r\n * \r\n * @param {*} payload\r\n *
@returns {payload is boolean}\r\n * \r\n\r\nfunction isBoolean(payload) {\r\n    return getType(payload) ===
    'Boolean';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a regular expression (RegExp)\r\n * \r\n * @param {*}
payload\r\n * @returns {payload is RegExp}\r\n * \r\n\r\nfunction isRegExp(payload) {\r\n    return getType(payload)
    === 'RegExp';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a Map\r\n * \r\n * @param {*} payload\r\n *
@returns {payload is
    Map<any, any>}\r\n * \r\n\r\nfunction isMap(payload) {\r\n    return getType(payload) === 'Map';\r\n}\r\n\r\n**\r\n *
Returns whether the payload is a WeakMap\r\n * \r\n * @param {*} payload\r\n * @returns {payload is
    WeakMap<any, any>}\r\n * \r\n\r\nfunction isWeakMap(payload) {\r\n    return getType(payload) ===
    'WeakMap';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a Set\r\n * \r\n * @param {*} payload\r\n * @returns
{payload is Set<any>}\r\n * \r\n\r\nfunction isSet(payload) {\r\n    return getType(payload) === 'Set';\r\n}\r\n\r\n**\r\n *
Returns whether the payload is a WeakSet\r\n * \r\n * @param {*} payload\r\n * @returns {payload is
    WeakSet<any>}\r\n * \r\n\r\nfunction isWeakSet(payload) {\r\n    return getType(payload) ===
    'WeakSet';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a Symbol\r\n * \r\n * @param {*} payload\r\n * @returns
{payload is symbol}\r\n * \r\n\r\nfunction isSymbol(payload) {\r\n    return getType(payload) ===
    'Symbol';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a Date, and
    that the date is valid\r\n * \r\n * @param {*} payload\r\n * @returns {payload is Date}\r\n * \r\n\r\nfunction
    isDate(payload) {\r\n    return getType(payload) === 'Date' && !isNaN(payload);\r\n}\r\n\r\n**\r\n * Returns whether
the payload is a Blob\r\n * \r\n * @param {*} payload\r\n * @returns {payload is Blob}\r\n * \r\n\r\nfunction
    isBlob(payload) {\r\n    return getType(payload) === 'Blob';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a
File\r\n * \r\n * @param {*} payload\r\n * @returns {payload is File}\r\n * \r\n\r\nfunction isFile(payload) {\r\n    return
    getType(payload) === 'File';\r\n}\r\n\r\n**\r\n * Returns whether the payload is a Promise\r\n * \r\n * @param {*}
payload\r\n * @returns {payload is Promise<any>}\r\n * \r\n\r\nfunction isPromise(payload) {\r\n    return
    getType(payload) === 'Promise';\r\n}\r\n\r\n**\r\n * Returns whether the payload is an Error\r\n * \r\n * @param {*}
payload\r\n * @returns {payload is Error}\r\n * \r\n\r\nfunction isError(payload) {\r\n    return getType(payload) ===
    'Error';\r\n}\r\n\r\n**\r\n * Returns whether the payload is literally the value `NaN` (it's `NaN` and also a
`number`)\r\n * \r\n * @param {*} payload\r\n * @returns {payload is typeof NaN}\r\n * \r\n\r\nfunction
    isNaNValue(payload) {\r\n    return getType(payload) === 'Number' && isNaN(payload);\r\n}\r\n\r\n**\r\n * Returns
whether the payload is a primitive type (eg. Boolean | Null | Undefined | Number | String | Symbol)\r\n * \r\n * @param {*}
payload\r\n * @returns {(payload is boolean | null | undefined | number | string | symbol)}\r\n * \r\n\r\nfunction
    isPrimitive(payload) {\r\n    return (isBoolean(payload) ||\r\n        isNaN(payload) ||\r\n        isUndefined(payload) ||\r\n        isNumber(payload) ||\r\n        isString(payload) ||\r\n        isSymbol(payload));\r\n}\r\n\r\n**\r\n * Returns true whether the payload is null or undefined\r\n * \r\n * @param {*}

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copy;\n}\n\nexport
function clone(obj) {\n  const cloned = {};\n  for (const prop in obj) {\n    if (obj.hasOwnProperty(prop)) {\n      cloned[prop] = obj[prop];\n    }\n  }\n  return cloned;\n}\n\nexport function defaults(obj1, obj2) {\n  let
newObj = obj2 || {};\n  if (!obj2._defaults) {\n    newObj = {};\n    const defaults = copy(obj1);\n    newObj._defaults = defaults;\n    const cloned = obj2 ? copy(obj2) : {};\n    Object.assign(newObj, defaults,
cloned);\n  }\n  return newObj;\n}\n\nexport function copyOptions(obj1, obj2) {\n  if (obj2 && obj2._defaults)
{\n    return obj2;\n  }\n  const opts = defaults(obj1, obj2);\n  if (opts.strictMath) {\n    opts.math =
Constants.Math.STRICT_LEGACY;\n  }\n  // Back compat with changed relativeUrls option\n  if
(opts.relativeUrls) {\n    opts.rewriteUrls = Constants.RewriteUrls.ALL;\n  }\n  if (typeof opts.math ===
'string') {\n    switch (opts.math.toLowerCase()) {\n
      case 'always':\n        opts.math = Constants.Math.ALWAYS;\n        break;\n      case 'parens-
division':\n        opts.math = Constants.Math.PARENS_DIVISION;\n        break;\n      case 'strict':\n
      case 'parens':\n        opts.math = Constants.Math.PARENS;\n        break;\n      case 'strict-legacy':\n
      case 'strict-legacy':\n        opts.math = Constants.Math.STRICT_LEGACY;\n    }\n  }\n  if (typeof opts.rewriteUrls === 'string')
{\n    switch (opts.rewriteUrls.toLowerCase()) {\n      case 'off':\n        opts.rewriteUrls =
Constants.RewriteUrls.OFF;\n        break;\n      case 'local':\n        opts.rewriteUrls =
Constants.RewriteUrls.LOCAL;\n        break;\n      case 'all':\n        opts.rewriteUrls =
Constants.RewriteUrls.ALL;\n        break;\n    }\n  }\n  return opts;\n}\n\nexport function merge(obj1,
obj2) {\n  for (const prop
in obj2) {\n    if (obj2.hasOwnProperty(prop)) {\n      obj1[prop] = obj2[prop];\n    }\n  }\n  return
obj1;\n}\n\nexport function flattenArray(arr, result = []) {\n  for (let i = 0, length = arr.length; i < length; i++) {\n
const value = arr[i];\n  if (Array.isArray(value)) {\n    flattenArray(value, result);\n  } else {\n    if
(value !== undefined) {\n      result.push(value);\n    }\n  }\n  }\n  return result;\n}"}
import * as
utils from './utils';\n\nconst anonymousFunc = /(<anonymous>|Function):(\d+):(\d+)/;\n\n/**\n * This is a
centralized class of any error that could be thrown internally (mostly by the parser).\n * Besides standard .message it
keeps some additional data like a path to the file where the error\n * occurred along with line and column
numbers.\n * \n * @class\n * @extends Error\n * @type {module.LessError}\n * \n * @prop {string} type\n *
@prop {string} filename\n * @prop {number}
index\n * @prop {number} line\n * @prop {number} column\n * @prop {number} callLine\n * @prop {number}
callExtract\n * @prop {string[]} extract\n * \n * @param {Object} e - An error object to wrap around or just
a descriptive object\n * @param {Object} fileContentMap - An object with file contents in 'contents' property (like
importManager) @todo - move to fileManager?\n * @param {string} [currentFilename]\n */\n\nconst LessError =
function LessError(e, fileContentMap, currentFilename) {\n  Error.call(this);\n\n  const filename = e.filename ||
currentFilename;\n\n  this.message = e.message;\n  this.stack = e.stack;\n\n  if (fileContentMap && filename)
{\n    const input = fileContentMap.contents[filename];\n    const loc = utils.getLocation(e.index, input);\n
const line = loc.line;\n    const col = loc.column;\n    const callLine = e.call && utils.getLocation(e.call,
input).line;\n    const lines = input ? input.split("\n") : "";\n\n    this.type = e.type || 'Syntax';\n    this.filename = filename;\n    this.index = e.index;\n    this.line = typeof
line === 'number' ? line + 1 : null;\n    this.column = col;\n\n    if (!this.line && this.stack) {\n      const
found = this.stack.match(anonymousFunc);\n\n      /**\n       * We have to figure out how this environment
stringifies anonymous functions\n       * so we can correctly map plugin errors.\n       * \n       * Note, in
Node 8, the output of anonymous funcs varied based on parameters\n       * being present or not, so we inject
dummy params.\n       * \n       const func = new Function('a', 'throw new Error()');\n       let lineAdjust =
0;\n       try {\n         func();\n       } catch (e) {\n         const match =
e.stack.match(anonymousFunc);\n         const line = parseInt(match[2]);\n         lineAdjust = 1 - line;\n
      }\n\n      if (found) {\n        if (found[2]) {\n          this.line = parseInt(found[2]) + lineAdjust;\n        }\n
        if (found[3]) {\n          this.column = parseInt(found[3]);\n        }\n      }\n    }\n  }\n}

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this.callLine = callLine + 1;\n      this.callExtract = lines[callLine];\n\n      this.extract = [\n        lines[this.line -
2],\n        lines[this.line - 1],\n        lines[this.line]\n      ];\n    }\n  }\n\n  if (typeof Object.create ===
'undefined') {\n    const F = () => {};\n    F.prototype = Error.prototype;\n    LessError.prototype = new F();\n  } else
{\n    LessError.prototype = Object.create(Error.prototype);\n  }\n\n  LessError.prototype.constructor =
LessError;\n\n  /**\n   * An overridden version of the default Object.prototype.toString\n   * which uses additional
information to create a helpful message.\n   * @param {Object} options\n   * @returns {string}\n
*/\n  LessError.prototype.toString
= function(options = {}) {\n    let message = "";\n    const extract = this.extract || [];\n    let error = [];\n    let stylize =
str => str;\n    if (options.stylize) {\n      const type = typeof options.stylize;\n      if (type !== 'function') {\n
throw Error(`options.stylize should be a function, got a ${type}!`);\n      }\n      stylize = options.stylize;\n    }\n\n    if (this.line !== null) {\n      if (typeof extract[0] === 'string') {\n        error.push(stylize(`${this.line - 1}
${extract[0]}`, 'grey'));\n      }\n\n      if (typeof extract[1] === 'string') {\n        let errorTxt = `${this.line}`;\n
        if (extract[1]) {\n          errorTxt += extract[1].slice(0, this.column) +\n
stylize(stylize(stylize(extract[1].substr(this.column, 1), 'bold') +\n
extract[1].slice(this.column + 1),
'red'), 'inverse');\n        }\n        error.push(errorTxt);\n      }\n\n      if (typeof extract[2]
=== 'string') {\n        error.push(stylize(`${this.line + 1} ${extract[2]}`, 'grey'));\n      }\n      error =
`${error.join("\\n") + stylize(" ", 'reset')}`;\n    }\n\n    message += stylize(`${this.type}Error: ${this.message}`,
'red');\n    if (this.filename) {\n      message += stylize(' in ', 'red') + this.filename;\n    }\n    if (this.line) {\n
message += stylize(` on line ${this.line}, column ${this.column + 1}:`, 'grey');\n    }\n\n    message +=
`\\n${error}`;\n\n    if (this.callLine) {\n      message += ` ${stylize('from ', 'red') + (this.filename || "")}`;\n
message += ` ${stylize(this.callLine, 'grey')} ${this.callExtract}`;\n    }\n\n    return message;\n  };\n\n  export default
LessError;\n\n  "import Node from './node';\n  import Element from './element';\n  import LessError from './less-
error';\n\n  const Selector = function(elements, extendList, condition, index, currentFileInfo, visibilityInfo) {\n
this.extendList = extendList;\n  this.condition
= condition;\n  this.evaldCondition = !condition;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n
this.elements = this.getElements(elements);\n  this.mixinElements_ = undefined;\n
this.copyVisibilityInfo(visibilityInfo);\n  this.setParent(this.elements, this);\n\n  Selector.prototype = new
Node();\n\n  Selector.prototype.accept = function(visitor) {\n    if (this.elements) {\n      this.elements =
visitor.visitArray(this.elements);\n    }\n    if (this.extendList) {\n      this.extendList =
visitor.visitArray(this.extendList);\n    }\n    if (this.condition) {\n      this.condition = visitor.visit(this.condition);\n
    }\n  };\n\n  Selector.prototype.createDerived = function(elements, extendList, evaldCondition) {\n    elements =
this.getElements(elements);\n    const newSelector = new Selector(elements, extendList || this.extendList,\n    null,
this.getIndex(), this.fileInfo(), this.visibilityInfo());\n    newSelector.evaldCondition = (evaldCondition
!= null) ? evaldCondition : this.evaldCondition;\n    newSelector.mediaEmpty = this.mediaEmpty;\n    return
newSelector;\n  };\n\n  Selector.prototype.getElements = function(els) {\n    if (!els) {\n      return [new Element("",
'&', false, this._index, this._fileInfo)];\n    }\n    if (typeof els === 'string') {\n      this.parse.parseNode(\n
els,\n      ['selector'],\n      this._index,\n      this._fileInfo,\n      function(err, result) {\n        if (err)
{\n          throw new LessError({\n            index: err.index,\n            message: err.message\n
          }, this.parse.imports, this._fileInfo.filename);\n        }\n        els = result[0].elements;\n      });\n    }\n
return els;\n  };\n\n  Selector.prototype.createEmptySelectors = function() {\n    const el = new Element("", '&',
false, this._index, this._fileInfo);\n    const sels = [new Selector([el],
null, null, this._index, this._fileInfo)];\n    sels[0].mediaEmpty = true;\n    return
sels;\n  };\n\n  Selector.prototype.match = function(other) {\n    const elements = this.elements;\n    const len =
elements.length;\n    let olen;\n    let i;\n\n    other = other.mixinElements();\n    olen = other.length;\n    if (olen ===
0 || len < olen) {\n      return 0;\n    } else {\n      for (i = 0; i < olen; i++) {\n        if (elements[i].value !==
other[i]) {\n          return 0;\n        }\n      }\n    }\n\n    return olen; // return number of matched
elements\n  };\n\n  Selector.prototype.mixinElements = function() {\n    if (this.mixinElements_) {\n      return
this.mixinElements_;\n    }\n\n    let elements = this.elements.map( v => v.combinator.value + (v.value.value ||

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v.value)).join(").match(/[,&#\|*|\.\|w-](\|w-](\|\\\|))*/g);\n\n if (elements) {\n   if (elements[0] === '&') {\n     elements.shift();\n   }\n } else {\n   elements
= [];\n }\n\n return (this.mixinElements_ = elements);\n};\n\nSelector.prototype.isJustParentSelector =
function() {\n return !this.mediaEmpty &&\n   this.elements.length === 1 &&\n   this.elements[0].value
=== '&' &&\n   (this.elements[0].combinator.value === '|' || this.elements[0].combinator.value ===
");\n};\n\nSelector.prototype.eval = function(context) {\n const evaldCondition = this.condition &&
this.condition.eval(context);\n let elements = this.elements;\n let extendList = this.extendList;\n\n elements =
elements && elements.map(e => e.eval(context));\n extendList = extendList && extendList.map(extend =>
extend.eval(context));\n\n return this.createDerived(elements, extendList,
evaldCondition);\n};\n\nSelector.prototype.genCSS = function(context, output) {\n let i;\n let element;\n if
(!context || !context.firstSelector) && this.elements[0].combinator.value === '|' {\n   output.add(' ',
this.fileInfo(), this.getIndex());\n
  }\n   for (i = 0; i < this.elements.length; i++) {\n     element = this.elements[i];\n     element.genCSS(context,
output);\n   }\n};\n\nSelector.prototype.getIsOutput = function() {\n return
this.evaldCondition;\n};\n\nSelector.prototype.type = 'Selector';\n\nexport default Selector;\n\n", "import Node from
'./node';\n\nconst Value = function(value) {\n if (!value) {\n   throw new Error('Value requires an array
argument');\n }\n if (!Array.isArray(value)) {\n   this.value = [ value ];\n }\n else {\n   this.value =
value;\n }\n};\n\nValue.prototype = new Node();\n\nValue.prototype.accept = function(visitor) {\n if (this.value)
{\n   this.value = visitor.visitArray(this.value);\n }\n};\n\nValue.prototype.eval = function(context) {\n if
(this.value.length === 1) {\n   return this.value[0].eval(context);\n } else {\n   return new
Value(this.value.map(v => v.eval(context)));\n }\n};\n\nValue.prototype.genCSS = function(context,
output) {\n let i;\n for (i = 0; i < this.value.length; i++) {\n   this.value[i].genCSS(context, output);\n   if (i
+ 1 < this.value.length) {\n     output.add((context && context.compress) ? ' : ' : ',');\n   }\n }\n};\n\nValue.prototype.type = 'Value';\n\nexport default Value;\n\n", "import Node from './node';\n\nconst Keyword =
function(value) {\n this.value = value;\n};\n\nKeyword.prototype = new Node();\n\nKeyword.prototype.genCSS =
function(context, output) {\n if (this.value === '%') { throw { type: 'Syntax', message: 'Invalid % without number'
}; }\n output.add(this.value);\n};\n\nKeyword.prototype.type = 'Keyword';\n\nKeyword.True = new
Keyword('true');\n\nKeyword.False = new Keyword('false');\n\nexport default Keyword;\n\n", "import Node from
'./node';\n\nimport { extend } from './util';\n\nconst Anonymous = function(value, index, currentFileInfo, mapLines,
rulesetLike, visibilityInfo) {\n this.value = value;\n this._index = index;\n
  this._fileInfo = currentFileInfo;\n  this.mapLines = mapLines;\n  this.rulesetLike = (typeof rulesetLike ===
'undefined') ? false : rulesetLike;\n  this.allowRoot = true;\n
  this.copyVisibilityInfo(visibilityInfo);\n}\n\nAnonymous.prototype = new Node();\n\nAnonymous.prototype.eval =
function() {\n return new Anonymous(this.value, this._index, this._fileInfo, this.mapLines, this.rulesetLike,
this.visibilityInfo());\n};\n\nAnonymous.prototype.compare = function(other) {\n return other.toCSS() &&
this.toCSS() === other.toCSS() ? 0 : undefined;\n};\n\nAnonymous.prototype.isRulesetLike = function() {\n
return this.rulesetLike;\n};\n\nAnonymous.prototype.genCSS = function(context, output) {\n this.nodeVisible =
Boolean(this.value);\n if (this.nodeVisible) {\n   output.add(this.value, this._fileInfo, this._index,
this.mapLines);\n }\n};\n\nAnonymous.prototype.type = 'Anonymous';\n\nexport default Anonymous;\n\n", "import
Node from './node';\n\nimport Value from
'./value';\n\nimport Keyword from './keyword';\n\nimport Anonymous from './anonymous';\n\nimport * as Constants from
'./constants';\n\nconst MATH = Constants.Math;\n\nconst Declaration = function(name, value, important, merge,
index, currentFileInfo, inline, variable) {\n this.name = name;\n this.value = (value instanceof Node) ? value :
new Value([value ? new Anonymous(value) : null]);\n this.important = important ? `${important.trim()} ` : '';\n
this.merge = merge;\n this._index = index;\n this._fileInfo = currentFileInfo;\n this.inline = inline || false;\n
this.variable = (variable !== undefined) ? variable\n   : (name.charAt(0) === '@');\n
  this.allowRoot = true;\n  this.setParent(this.value, this);\n};\n\nDeclaration.prototype = new
Node();\n\nDeclaration.prototype.genCSS = function(context, output) {\n output.add(this.name +

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(context.compress ? ':' : ''), this.fileInfo(), this.getIndex());\n try {\n     this.value.genCSS(context,\n     output);\n } catch (e) {\n     e.index = this._index;\n     e.filename = this._fileInfo.filename;\n     throw e;\n }\n output.add(this.important + ((this.inline || (context.lastRule && context.compress)) ? ':' : ''),\n this._fileInfo, this._index);\n\nDeclaration.prototype.eval = function(context) {\n    let mathBypass = false;\n    let prevMath;\n    let name = this.name;\n    let evaldValue;\n    let variable = this.variable;\n    if (typeof name !==\n    'string') {\n        // expand 'primitive' name directly to get\n        // things faster (~10% for benchmark.les);\n        name = (name.length === 1) && (name[0] instanceof Keyword) ?\n        name[0].value : evalName(context,\n        name);\n        variable = false; // never treat expanded interpolation as new variable name\n    }\n    // @todo\n    remove when parens-division is default\n    if (name === 'font' && context.math === MATH.ALWAYS) {\n        mathBypass = true;\n        prevMath = context.math;\n        context.math = MATH.PARENS_DIVISION;\n    }\n    try {\n        context.importantScope.push({});\n        evaldValue = this.value.eval(context);\n        if (!this.variable && evaldValue.type === 'DetachedRuleset') {\n            throw { message: 'Rulesets cannot be evaluated on a property.',\n                index: this.getIndex(), filename:\n                this.fileInfo().filename }; }\n        let important = this.important;\n        const importantResult =\n        context.importantScope.pop();\n        if (!important && importantResult.important) {\n            important =\n            importantResult.important;\n        }\n        return new Declaration(name,\n            evaldValue,\n            important,\n            this.merge,\n            this.getIndex(), this.fileInfo(), this.inline,\n            variable);\n    } catch\n    (e) {\n        if (typeof e.index !== 'number') {\n            e.index = this.getIndex();\n            e.filename =\n            this.fileInfo().filename;\n        }\n        throw\n        e;\n    }\n    finally {\n        if (mathBypass) {\n            context.math = prevMath;\n        }\n    }\n}\n\nDeclaration.prototype.makeImportant = function() {\n    return new Declaration(this.name,\n    this.value,\n    'important',\n    this.merge,\n    this.getIndex(), this.fileInfo(), this.inline);\n}\n\nfunction\n    evalName(context, name) {\n    let value = \";\n    let i;\n    const n = name.length;\n    const output = { add: function\n    (s) { value += s; } };\n    for (i = 0; i < n; i++) {\n        name[i].eval(context).genCSS(context, output);\n    }\n    return\n    value;\n}\n\nDeclaration.prototype.type = 'Declaration';\n\nexport default Declaration;\n\nconst debugInfo = (context,\n    ctx, lineSeparator) => {\n    let result = \";\n    if (context.dumpLineNumbers && !context.compress) {\n        switch\n        (context.dumpLineNumbers) {\n            case 'comments':\n                result = debugInfo.asComment(ctx);\n                break;\n            case 'mediaquery':\n                result = debugInfo.asMediaQuery(ctx);\n                break;\n            case 'all':\n                result =\n                debugInfo.asComment(ctx) + (lineSeparator || \"\") + debugInfo.asMediaQuery(ctx);\n                break;\n        }\n    }\n    return result;\n}\n\ndebugInfo.asComment = ctx => ctx.debugInfo ? `/* line ${ctx.debugInfo.lineNumber},\n    ${ctx.debugInfo.fileName} */` : \";\n\ndebugInfo.asMediaQuery = ctx => {\n    if (!ctx.debugInfo) { return \"; }\n    let filenameWithProtocol = ctx.debugInfo.fileName;\n    if (!/^([a-z]+:\\/\\/)/i.test(filenameWithProtocol)) {\n        filenameWithProtocol = `file://${filenameWithProtocol}`;\n    }\n    return `@media -sass-debug-\n    info{filename{font-family:${filenameWithProtocol.replace(/([.:\\|\\\\\\\\])/g, a => {\n        if (a === '\\\\') {\n            a =\n            '\\/';\n        }\n        return `\\\\\\\\${a}`;\n    }}}line{font-\n    family:\\\\00003${ctx.debugInfo.lineNumber}}}`;\n}\n\nexport default debugInfo;\n\n\", \"import Node from\n    './node';\n\nimport\n    getDebugInfo from './debug-info';\n\nconst Comment = function(value, isLineComment, index, currentFileInfo) {\n    this.value = value;\n    this.isLineComment = isLineComment;\n    this._index = index;\n    this._fileInfo =\n    currentFileInfo;\n    this.allowRoot = true;\n}\n\nComment.prototype = new\n    Node();\n\nComment.prototype.genCSS = function(context, output) {\n    if (this.debugInfo) {\n        output.add(getDebugInfo(context, this), this.fileInfo(), this.getIndex());\n    }\n    output.add(this.value);\n}\n\nComment.prototype.isSilent = function(context) {\n    const isCompressed =\n    context.compress && this.value[2] !== '!';\n    return this.isLineComment ||\n    isCompressed;\n}\n\nComment.prototype.type = 'Comment';\n\nexport default Comment;\n\n\", \"const contexts =\n    { };\n\nexport default contexts;\n\nimport * as Constants from './constants';\n\nconst copyFromOriginal = function\n    copyFromOriginal(original, destination, propertiesToCopy) {\n    if (!original) { return; }\n    for (let i

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= 0; i < propertiesToCopy.length; i++) {\n    if (original.hasOwnProperty(propertiesToCopy[i])) {\n
destination[propertiesToCopy[i]] = original[propertiesToCopy[i]]; \n    } \n } \n}; \n \n*/ \n parse is used whilst
parsing \n */ \n const parseCopyProperties = [\n // options \n 'paths', // option - unmodified - paths to search
for imports \n 'rewriteUrls', // option - whether to adjust URL's to be relative \n 'rootpath', // option -
rootpath to append to URL's \n 'strictImports', // option - \n 'insecure', // option - whether to allow imports
from insecure ssl hosts \n 'dumpLineNumbers', // option - whether to dump line numbers \n 'compress', //
option - whether to compress \n 'syncImport', // option - whether to import synchronously \n 'chunkInput',
// option - whether to chunk input. more performant but causes parse issues. \n 'mime', // browser only -
mime type for sheet import \n
'useFileCache', // browser only - whether to use the per file session cache \n // context \n 'processImports', //
option & context - whether to process imports. if false then imports will not be imported. \n // Used by the import
manager to stop multiple import visitors being created. \n 'pluginManager' // Used as the plugin manager for the
session \n]; \n \n contexts.Parse = function(options) {\n    copyFromOriginal(options, this, parseCopyProperties); \n \n
if (typeof this.paths === 'string') { this.paths = [this.paths]; } \n}; \n \n const evalCopyProperties = [\n 'paths',
// additional include paths \n 'compress', // whether to compress \n 'math', // whether math has to be
within parenthesis \n 'strictUnits', // whether units need to evaluate correctly \n 'sourceMap', // whether to
output a source map \n 'importMultiple', // whether we are currently importing multiple copies \n 'urlArgs',
//
whether to add args into url tokens \n 'javascriptEnabled', // option - whether Inline JavaScript is enabled. if
undefined, defaults to false \n 'pluginManager', // Used as the plugin manager for the session \n
'importantScope', // used to bubble up !important statements \n 'rewriteUrls' // option - whether to adjust
URL's to be relative \n]; \n \n function isPathRelative(path) {\n    return !/^(?:[a-z-]+:|\\|\\#)/i.test(path); \n} \n \n function
isPathLocalRelative(path) {\n    return path.charAt(0) === '.'; \n} \n \n contexts.Eval = class {\n    constructor(options,
frames) {\n        copyFromOriginal(options, this, evalCopyProperties); \n \n        if (typeof this.paths === 'string') {
this.paths = [this.paths]; } \n \n        this.frames = frames || []; \n        this.importantScope = this.importantScope || []; \n
        this.inCalc = false; \n        this.mathOn = true; \n    } \n \n    enterCalc() {\n        if (!this.calcStack) {\n
this.calcStack = []; \n        } \n
        this.calcStack.push(true); \n        this.inCalc = true; \n    } \n \n    exitCalc() {\n        this.calcStack.pop(); \n        if
(!this.calcStack.length) {\n            this.inCalc = false; \n        } \n    } \n \n    inParenthesis() {\n        if
(!this.parensStack) {\n            this.parensStack = []; \n        } \n        this.parensStack.push(true); \n    }; \n \n
    outOfParenthesis() {\n        this.parensStack.pop(); \n    }; \n \n    isMathOn(op) {\n        if (!this.mathOn) {\n
return false; \n        } \n        if (op === '/' && this.math !== Constants.Math.ALWAYS && (!this.parensStack ||
!this.parensStack.length)) {\n            return false; \n        } \n        if (this.math >
Constants.Math.PARENS_DIVISION) {\n            return this.parensStack && this.parensStack.length; \n        } \n
return true; \n    } \n \n    pathRequiresRewrite(path) {\n        const isRelative = this.rewriteUrls ===
Constants.RewriteUrls.LOCAL ? isPathLocalRelative : isPathRelative; \n \n
return isRelative(path); \n    } \n \n    rewritePath(path, rootpath) {\n        let newPath; \n \n        rootpath = rootpath
|| ""; \n        newPath = this.normalizePath(rootpath + path); \n \n        // If a path was explicit relative and the rootpath
was not an absolute path \n        // we must ensure that the new path is also explicit relative. \n        if
(isPathLocalRelative(path) && \n            isPathRelative(rootpath) && \n            isPathLocalRelative(newPath) ===
false) {\n            newPath = `.${newPath}`; \n        } \n \n        return newPath; \n    } \n \n    normalizePath(path) {\n
const segments = path.split('/').reverse(); \n        let segment; \n        path = []; \n        while (segments.length !== 0)
{\n            segment = segments.pop(); \n            switch (segment) {\n                case '.': \n                    break; \n
                case '..': \n                    if ((path.length === 0) || (path[path.length - 1] === '..')) {\n
path.push(segment); \n                    } else {\n                        path.pop(); \n                    } \n                    break; \n
                default: \n                    path.push(segment); \n                    break; \n            } \n        } \n \n
return path.join('/'); \n    } \n \n } \n \n \n "function makeRegistry( base ) {\n    return {\n        _data: {}, \n        add: function(name, func) {\n            //
precautionary case conversion, as later querying of \n        // the registry by function-caller uses lower case as

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well.\n      name = name.toLowerCase();\n\n      if (this._data.hasOwnProperty(name)) {\n          // TODO
warn\n      }\n      this._data[name] = func;\n    },\n    addMultiple: function(functions) {\n
Object.keys(functions).forEach(\n      name => {\n          this.add(name, functions[name]);\n
});\n    },\n    get: function(name) {\n      return this._data[name]
  }|\n  | ( base && base.get( name ));\n  },\n  getLocalFunctions: function() {\n      return this._data;\n  },\n  inherit: function() {\n      return makeRegistry( this );\n  },\n  create: function(base) {\n      return
makeRegistry(base);\n  }|\n  }|\n  }\n\nexport default makeRegistry( null );\n\n","import Keyword from
'../tree/keyword';\n\nconst defaultFunc = {\n  eval: function () {\n      const v = this.value_;\n      const e =
this.error_;\n      if (e) {\n          throw e;\n      }\n      if (v != null) {\n          return v ? Keyword.True :
Keyword.False;\n      }\n  },\n  value: function (v) {\n      this.value_ = v;\n  },\n  error: function (e) {\n
this.error_ = e;\n  },\n  reset: function () {\n      this.value_ = this.error_ = null;\n  }\n};\n\nexport default
defaultFunc;\n\n","import Node from './node';\n\nimport Declaration from './declaration';\n\nimport Keyword from
'./keyword';\n\nimport
Comment from './comment';\n\nimport Paren from './paren';\n\nimport Selector from './selector';\n\nimport Element from
'./element';\n\nimport Anonymous from './anonymous';\n\nimport contexts from './contexts';\n\nimport
globalFunctionRegistry from './functions/function-registry';\n\nimport defaultFunc from './functions/default';\n\nimport
getDebugInfo from './debug-info';\n\nimport * as utils from './utils';\n\nconst Ruleset = function(selectors, rules,
strictImports, visibilityInfo) {\n  this.selectors = selectors;\n  this.rules = rules;\n  this._lookups = {};\n
this._variables = null;\n  this._properties = null;\n  this.strictImports = strictImports;\n
this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot = true;\n\n  this.setParent(this.selectors, this);\n
this.setParent(this.rules, this);\n\n\nRuleset.prototype = new Node();\n\nRuleset.prototype.isRulesetLike =
function() {\n  return true;\n};\n\nRuleset.prototype.accept = function(visitor) {\n
if (this.paths) {\n      this.paths = visitor.visitArray(this.paths, true);\n  } else if (this.selectors) {\n
this.selectors = visitor.visitArray(this.selectors);\n  }\n  if (this.rules && this.rules.length) {\n      this.rules =
visitor.visitArray(this.rules);\n  }\n};\n\nRuleset.prototype.eval = function(context) {\n  const that = this;\n  let
selectors;\n  let selCnt;\n  let selector;\n  let i;\n  let hasVariable;\n  let hasOnePassingSelector = false;\n\n  if
(this.selectors && (selCnt = this.selectors.length)) {\n      selectors = new Array(selCnt);\n
defaultFunc.error({\n      type: 'Syntax',\n      message: 'it is currently only allowed in parametric mixin
guards,\n  });\n\n      for (i = 0; i < selCnt; i++) {\n          selector = this.selectors[i].eval(context);\n          for
(var j = 0; j < selector.elements.length; j++) {\n              if (selector.elements[j].isVariable) {\n
hasVariable
= true;\n              break;\n          }\n      }\n      selectors[i] = selector;\n      if
(selector.evaldCondition) {\n          hasOnePassingSelector = true;\n      }\n  }\n\n  if (hasVariable)
{\n      const toParseSelectors = new Array(selCnt);\n      for (i = 0; i < selCnt; i++) {\n          selector =
selectors[i];\n          toParseSelectors[i] = selector.toCSS(context);\n      }\n      this.parse.parseNode(\n
toParseSelectors.join(','),\n      ["selectors"],\n      selectors[0].getIndex(),\n
selectors[0].fileInfo(),\n      (err, result) => {\n          if (result) {\n              selectors =
utils.flattenArray(result);\n          }\n      });\n  }\n\n  defaultFunc.reset();\n  } else {\n
hasOnePassingSelector = true;\n  }\n\n  let rules = this.rules ? utils.copyArray(this.rules)
: null;\n  const ruleset = new Ruleset(selectors, rules, this.strictImports, this.visibilityInfo);\n  let rule;\n  let
subRule;\n\n  ruleset.originalRuleset = this;\n  ruleset.root = this.root;\n  ruleset.firstRoot = this.firstRoot;\n
ruleset.allowImports = this.allowImports;\n\n  if (this.debugInfo) {\n      ruleset.debugInfo = this.debugInfo;\n
}\n\n  if (!hasOnePassingSelector) {\n      rules.length = 0;\n  }\n\n  // inherit a function registry from the frames
stack when possible;\n  // otherwise from the global registry\n  ruleset.functionRegistry = (frames => {\n      let i
= 0;\n      const n = frames.length;\n      let found;\n      for (; i !== n; ++i) {\n          found = frames[ i
].functionRegistry;\n          if ( found ) { return found; }\n      }\n      return globalFunctionRegistry;\n
})(context.frames).inherit();\n\n  // push the current ruleset to the frames stack\n  const ctxFrames =

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context.frames;\n  ctxFrames.unshift(ruleset);\n\n  // current selectors\n  let ctxSelectors = context.selectors;\n  if (!ctxSelectors) {\n    context.selectors = ctxSelectors = [];\n  }\n  ctxSelectors.unshift(this.selectors);\n\n  // Evaluate imports\n  if (ruleset.root || ruleset.allowImports || !ruleset.strictImports) {\n    ruleset.evalImports(context);\n  }\n\n  // Store the frames around mixin definitions,\n  // so they can be evaluated like closures when the time comes.\n  const rsRules = ruleset.rules;\n  for (i = 0; (rule = rsRules[i]); i++) {\n    if (rule.evalFirst) {\n      rsRules[i] = rule.eval(context);\n    }\n  }\n\n  const mediaBlockCount = (context.mediaBlocks && context.mediaBlocks.length) || 0;\n  // Evaluate mixin calls.\n  for (i = 0; (rule = rsRules[i]); i++) {\n    if (rule.type === 'MixinCall') {\n      /* jshint loopfunc:true */\n      rules = rule.eval(context).filter(r => {\n        if ((r instanceof Declaration) && r.variable) {\n          // do not pollute the scope if the variable is\n          // already there. consider returning false here\n          // but we need a way to \"return\" variable from mixins\n          return !(ruleset.variable(r.name));\n        }\n        return true;\n      });\n      rsRules.splice(...[i, 1].concat(rules));\n      i += rules.length - 1;\n      ruleset.resetCache();\n    } else if (rule.type === 'VariableCall') {\n      /* jshint loopfunc:true */\n      rules = rule.eval(context).rules.filter(r => {\n        if ((r instanceof Declaration) && r.variable) {\n          // do not pollute the scope at all\n          return false;\n        }\n        return true;\n      });\n      rsRules.splice(...[i, 1].concat(rules));\n      i += rules.length - 1;\n      ruleset.resetCache();\n    }\n  }\n\n  // Evaluate everything else\n  for (i = 0; (rule = rsRules[i]); i++) {\n    if (!rule.evalFirst) {\n      rsRules[i] = rule = rule.eval ? rule.eval(context) : rule;\n    }\n  }\n\n  // Evaluate everything else\n  for (i = 0; (rule = rsRules[i]); i++) {\n    // for rulesets, check if it is a css guard and can be removed\n    if (rule instanceof Ruleset && rule.selectors && rule.selectors.length === 1) {\n      // check if it can be folded in (e.g. & where)\n      if (rule.selectors[0] && rule.selectors[0].isJustParentSelector()) {\n        rsRules.splice(i--, 1);\n      }\n      for (var j = 0; (subRule = rule.rules[j]); j++) {\n        if (subRule instanceof Node) {\n          subRule.copyVisibilityInfo(rule.visibilityInfo());\n          if (!(subRule instanceof Declaration) || !subRule.variable) {\n            rsRules.splice(++i, 0, subRule);\n          }\n        }\n      }\n    }\n  }\n\n  // Pop the stack\n  ctxFrames.shift();\n  ctxSelectors.shift();\n\n  if (context.mediaBlocks) {\n    for (i = mediaBlockCount; i < context.mediaBlocks.length; i++) {\n      context.mediaBlocks[i].bubbleSelectors(selectors);\n    }\n  }\n\n  return ruleset;\n};\n\nRuleset.prototype.evalImports = function(context) {\n  const rules = this.rules;\n  let i;\n  let importRules;\n  if (!rules) {\n    return;\n  }\n  for (i = 0; i < rules.length; i++) {\n    if (rules[i].type === 'Import') {\n      importRules = rules[i].eval(context);\n      if (importRules && (importRules.length || importRules.length === 0)) {\n        rules.splice(...[i, 1].concat(importRules));\n        i += importRules.length - 1;\n      } else {\n        rules.splice(i, 1, importRules);\n      }\n    }\n  }\n  this.resetCache();\n};\n\nRuleset.prototype.makeImportant = function() {\n  const result = new Ruleset(this.selectors, this.rules.map(r => {\n    if (r.makeImportant) {\n      return r.makeImportant();\n    } else {\n      return r;\n    }\n  }), this.strictImports, this.visibilityInfo());\n  return result;\n};\n\nRuleset.prototype.matchArgs = function(args) {\n  return !args || args.length === 0;\n};\n\n// lets you call a css selector with a guard\nRuleset.prototype.matchCondition = function(args, context) {\n  const lastSelector = this.selectors[this.selectors.length - 1];\n  if (!lastSelector.evaldCondition) {\n    return false;\n  }\n  if (lastSelector.condition && !lastSelector.condition.eval(new contexts.Eval(context, context.frames))) {\n    return false;\n  }\n  return true;\n};\n\nRuleset.prototype.resetCache = function() {\n  this._rulesets = null;\n  this._variables = null;\n  this._properties = null;\n  this._lookups = {};\n};\n\nRuleset.prototype.variables = function() {\n  if (!this._variables) {\n    this._variables = !this.rules ? {} : this.rules.reduce((hash, r) => {\n      if (r instanceof Declaration && r.variable === true) {\n        hash[r.name] = r;\n      }\n    }, {});\n    // when evaluating variables in an import statement, imports have not been eval'd\n    // so we need to go inside import statements.\n    // guard against root being a string (in the case of inlined less)\n    if (r.type === 'Import' && r.root &&

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r.root.variables) {\n      const vars = r.root.variables();\n      for (const name in vars) {\n      if\n      (vars.hasOwnProperty(name)) {\n      hash[name] = r.root.variable(name);\n      }\n      }\n      return hash;\n      }, {});\n      }\n      return this._variables;\n      }\n\nRuleset.prototype.properties\n= function() {\n  if (!this._properties) {\n    this._properties = !this.rules ? {} : this.rules.reduce((hash, r) => {\n      if (r instanceof Declaration && r.variable !== true) {\n        const name = (r.name.length === 1) &&\n        (r.name[0] instanceof Keyword) ?\n        r.name[0].value : r.name;\n        // Properties don't overwrite as\n        they can merge\n        if (!hash[`${name}`]) {\n          hash[`${name}`] = [ r ];\n        }\n        else {\n          hash[`${name}`].push(r);\n        }\n      }\n      return hash;\n    }, {});\n  }\n  return this._properties;\n};\n\nRuleset.prototype.variable = function(name) {\n  const decl =\n  this.variables()[name];\n  if (decl) {\n    return this.parseValue(decl);\n  }\n};\n\nRuleset.prototype.property =\nfunction(name) {\n  const decl = this.properties()[name];\n  if (decl) {\n    return this.parseValue(decl);\n  }\n};\n\nRuleset.prototype.lastDeclaration = function() {\n  for (let i = this.rules.length; i > 0; i--) {\n    const\n    decl = this.rules[i - 1];\n    if (decl instanceof Declaration) {\n      return this.parseValue(decl);\n    }\n  }\n};\n\nRuleset.prototype.parseValue = function(toParse) {\n  const self = this;\n  function\n  transformDeclaration(decl) {\n    if (decl.value instanceof Anonymous && !decl.parsed) {\n      if (typeof\n      decl.value.value === 'string') {\n        this.parse.parseNode(\n          decl.value.value,\n          ['value', 'important'],\n          decl.value.getIndex(),\n          decl.fileInfo(),\n          (err, result) =>\n          {\n            if (err) {\n              decl.parsed = true;\n            }\n            if (result) {\n              decl.value = result[0];\n              decl.important\n              = result[1] || '';\n              decl.parsed = true;\n            }\n          }\n        );\n      } else {\n        decl.parsed = true;\n      }\n      return decl;\n    } else {\n      return decl;\n    }\n  }\n  if\n  (!Array.isArray(toParse)) {\n    return transformDeclaration.call(self, toParse);\n  } else {\n    const nodes\n    = [];\n    toParse.forEach(n => {\n      nodes.push(transformDeclaration.call(self, n));\n    });\n    return\n    nodes;\n  }\n};\n\nRuleset.prototype.rulesets = function() {\n  if (!this.rules) { return []; }\n  const filtRules =\n  [];\n  const rules = this.rules;\n  let i;\n  let rule;\n  for (i = 0; (rule = rules[i]); i++) {\n    if (rule.isRuleset)\n    {\n      filtRules.push(rule);\n    }\n  }\n  return filtRules;\n};\n\nRuleset.prototype.prependRule =\nfunction(rule) {\n  const rules = this.rules;\n  if\n  (rules) {\n    rules.unshift(rule);\n  } else {\n    this.rules = [ rule ];\n  }\n  this.setParent(rule,\n  this);\n};\n\nRuleset.prototype.find = function(selector, self = this, filter) {\n  const rules = [];\n  let match;\n  let\n  foundMixins;\n  const key = selector.toCSS();\n  if (key in this._lookups) { return this._lookups[key]; }\n  this.rulesets().forEach(rule => {\n    if (rule !== self) {\n      for (let j = 0; j < rule.selectors.length; j++) {\n        match = selector.match(rule.selectors[j]);\n        if (match) {\n          if (selector.elements.length >\n          match) {\n            if (!filter || filter(rule)) {\n              foundMixins = rule.find(new\n              Selector(selector.elements.slice(match)), self, filter);\n              for (let i = 0; i < foundMixins.length; ++i)\n              {\n                foundMixins[i].path.push(rule);\n              }\n              Array.prototype.push.apply(rules, foundMixins);\n            }\n          } else {\n            rules.push({ rule, path: [] });\n            break;\n          }\n        }\n      }\n    }\n  });\n  this._lookups[key] = rules;\n  return rules;\n};\n\nRuleset.prototype.genCSS = function(context, output) {\n  let\n  i;\n  let j;\n  const charsetRuleNodes = [];\n  let ruleNodes = [];\n  let // Line number debugging\n  debugInfo;\n  let rule;\n  let path;\n  context.tabLevel = (context.tabLevel || 0);\n  if (!this.root) {\n    context.tabLevel++;\n  }\n  const tabRuleStr = context.compress ? " : Array(context.tabLevel + 1).join(' ');\n  const tabSetStr = context.compress ? " : Array(context.tabLevel).join(' ');\n  let sep;\n  let charsetNodeIndex =\n  0;\n  let importNodeIndex = 0;\n  for (i = 0; (rule = this.rules[i]); i++) {\n    if (rule instanceof\n    Comment) {\n      if (importNodeIndex === i) {\n        importNodeIndex++;\n      }\n      ruleNodes.push(rule);\n    } else if (rule.isCharset && rule.isCharset()) {\n      ruleNodes.splice(charsetNodeIndex, 0, rule);\n      charsetNodeIndex++;\n      importNodeIndex++;\n    } else if (rule.type === 'Import') {\n      ruleNodes.splice(importNodeIndex, 0, rule);\n      importNodeIndex++;\n    } else {\n      ruleNodes.push(rule);\n    }\n  }\n  ruleNodes =

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charsetRuleNodes.concat(ruleNodes);\n\n // If this is the root node, we don't render\n // a selector, or {}. \n\n if
(!this.root) {\n\n\n debugInfo = getDebugInfo(context, this, tabSetStr);\n\n\n if (debugInfo) {\n\n\n
output.add(debugInfo);\n\n\n\n output.add(tabSetStr);\n\n\n\n } \n\n\n\n const paths = this.paths;\n\n\n\n const pathCnt
= paths.length;\n\n\n\n let pathSubCnt;\n\n\n\n sep = context.compress ? ','
:\n\n\n\n : `\\n${tabSetStr}`);\n\n\n\n for (i = 0; i < pathCnt; i++) {\n\n\n\n path = paths[i];\n\n\n\n if (!(pathSubCnt =
path.length)) { continue; }\n\n\n\n if (i > 0) { output.add(sep); }\n\n\n\n\n context.firstSelector = true;\n\n\n\n
path[0].genCSS(context, output);\n\n\n\n\n context.firstSelector = false;\n\n\n\n\n for (j = 1; j < pathSubCnt; j++)
{\n\n\n\n\n path[j].genCSS(context, output);\n\n\n\n\n } \n\n\n\n\n output.add((context.compress ? '{': ' ' + tabRuleStr);
\n\n\n\n } \n\n\n\n // Compile rules and rulesets\n\n\n\n\n for (i = 0; (rule = ruleNodes[i]); i++) {\n\n\n\n\n if (i + 1
=== ruleNodes.length) {\n\n\n\n\n context.lastRule = true;\n\n\n\n\n } \n\n\n\n\n const currentLastRule =
context.lastRule;\n\n\n\n\n if (rule.isRulesetLike(rule)) {\n\n\n\n\n context.lastRule = false;\n\n\n\n\n } \n\n\n\n\n if
(rule.genCSS) {\n\n\n\n\n rule.genCSS(context, output);\n\n\n\n\n } else if (rule.value) {\n\n\n\n\n
output.add(rule.value.toString());\n\n\n\n\n }\n\n\n\n\n context.lastRule = currentLastRule;\n\n\n\n\n if (!context.lastRule && rule.isVisible()) {\n\n\n\n\n
output.add(context.compress ? " : `\\n${tabRuleStr}`);\n\n\n\n\n } else {\n\n\n\n\n\n context.lastRule = false;\n\n\n\n\n } \n\n\n\n\n
}\n\n\n\n\n if (!this.root) {\n\n\n\n\n\n output.add((context.compress ? '}' : `\\n${tabSetStr}`));\n\n\n\n\n\n context.tabLevel--;\n\n\n\n\n\n
}\n\n\n\n\n\n if (!output.isEmpty() && !context.compress && this.firstRoot) {\n\n\n\n\n\n\n output.add(`\\n`);\n\n\n\n\n\n\n }\n\n\n\n\n\n\n
}\n\n\n\n\n\n\n Ruleset.prototype.joinSelectors = function(paths, context, selectors) {\n\n\n\n\n\n\n for (let s = 0; s < selectors.length;
s++) {\n\n\n\n\n\n\n this.joinSelector(paths, context, selectors[s]);\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n Ruleset.prototype.joinSelector =
function(paths, context, selector) {\n\n\n\n\n\n\n\n function createParenthesis(elementsToPak, originalElement) {\n\n\n\n\n\n\n\n let
replacementParen;\n\n\n\n\n\n\n\n let j;\n\n\n\n\n\n\n\n if (elementsToPak.length === 0) {\n\n\n\n\n\n\n\n replacementParen = new
Paren(elementsToPak[0]);\n\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n } else {\n\n\n\n\n\n\n\n\n const insideParent = new Array(elementsToPak.length);\n\n\n\n\n\n\n\n\n for (j = 0; j <
elementsToPak.length; j++) {\n\n\n\n\n\n\n\n\n\n insideParent[j] = new Element(\n\n\n\n\n\n\n\n\n\n null,\n\n\n\n\n\n\n\n\n\n
elementsToPak[j],\n\n\n\n\n\n\n\n\n\n originalElement.isVariable,\n\n\n\n\n\n\n\n\n\n originalElement._index,\n\n\n\n\n\n\n\n\n\n
originalElement._fileInfo\n\n\n\n\n\n\n\n\n\n );\n\n\n\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n\n\n replacementParen = new Paren(new
Selector(insideParent));\n\n\n\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n\n\n return replacementParen;\n\n\n\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n\n\n\n function
createSelector(containedElement, originalElement) {\n\n\n\n\n\n\n\n\n\n let element;\n\n\n\n\n\n\n\n\n\n let selector;\n\n\n\n\n\n\n\n\n\n
element = new
Element(null, containedElement, originalElement.isVariable, originalElement._index, originalElement._fileInfo);\n\n\n\n\n\n\n\n\n\n
selector = new Selector([element]);\n\n\n\n\n\n\n\n\n\n return selector;\n\n\n\n\n\n\n\n\n\n }\n\n\n\n\n\n\n\n\n\n\n // joins selector path from `beginningPath`
with selector path in `addPath`\n\n\n\n\n\n\n\n\n\n // `replacedElement` contains
element that is being replaced by `addPath`\n\n\n\n\n\n\n\n\n\n // returns concatenated path\n\n\n\n\n\n\n\n\n\n\n function
addReplacementIntoPath(beginningPath, addPath, replacedElement, originalSelector) {\n\n\n\n\n\n\n\n\n\n let
newSelectorPath;\n\n\n\n\n\n\n\n\n\n let lastSelector;\n\n\n\n\n\n\n\n\n\n let newJoinedSelector;\n\n\n\n\n\n\n\n\n\n\n // our new selector path\n\n\n\n\n\n\n\n\n\n\n
newSelectorPath = [];\n\n\n\n\n\n\n\n\n\n\n // construct the joined selector - if & is the first thing this will be empty,\n\n\n\n\n\n\n\n\n\n\n // if not
newJoinedSelector will be the last set of elements in the selector\n\n\n\n\n\n\n\n\n\n\n if (beginningPath.length > 0) {\n\n\n\n\n\n\n\n\n\n\n
newSelectorPath = utils.copyArray(beginningPath);\n\n\n\n\n\n\n\n\n\n\n\n lastSelector = newSelectorPath.pop();\n\n\n\n\n\n\n\n\n\n\n\n
newJoinedSelector = originalSelector.createDerived(utils.copyArray(lastSelector.elements));\n\n\n\n\n\n\n\n\n\n\n\n } \n\n\n\n\n\n\n\n\n\n\n else {\n\n\n\n\n\n\n\n\n\n\n
newJoinedSelector = originalSelector.createDerived([]);\n\n\n\n\n\n\n\n\n\n\n\n } \n\n\n\n\n\n\n\n\n\n\n\n if (addPath.length > 0) {\n\n\n\n\n\n\n\n\n\n\n\n //
/deep/ is a CSS4 selector - (removed, so should deprecate)\n\n\n\n\n\n\n\n\n\n\n\n // that is valid without anything in front of it\n\n\n\n\n\n\n\n\n\n\n\n // so if the & does not have a combinator that is \" \" or \" \"
then\n\n\n\n\n\n\n\n\n\n\n // and there is a combinator on the parent, then grab that.\n\n\n\n\n\n\n\n\n\n\n // this also allows + a & .b { .a & {
... though not sure why you would want to do that\n\n\n\n\n\n\n\n\n\n\n\n let combinator = replacedElement.combinator;\n\n\n\n\n\n\n\n\n\n\n\n
const parentEl = addPath[0].elements[0];\n\n\n\n\n\n\n\n\n\n\n\n if (combinator.emptyOrWhitespace &&
!parentEl.combinator.emptyOrWhitespace) {\n\n\n\n\n\n\n\n\n\n\n\n\n combinator = parentEl.combinator;\n\n\n\n\n\n\n\n\n\n\n\n } \n\n\n\n\n\n\n\n\n\n\n //
join the elements so far with the first part of the parent\n\n\n\n\n\n\n\n\n\n\n\n\n newJoinedSelector.elements.push(new Element(\n\n\n\n\n\n\n\n\n\n\n
combinator,\n\n\n\n\n\n\n\n\n\n\n\n\n parentEl.value,\n\n\n\n\n\n\n\n\n\n\n\n\n replacedElement.isVariable,\n\n\n\n\n\n\n\n\n\n\n\n\n
replacedElement._index,\n\n\n\n\n\n\n\n\n\n\n\n\n replacedElement._fileInfo\n\n\n\n\n\n\n\n\n\n\n\n\n ));\n\n\n\n\n\n\n\n\n\n\n\n\n newJoinedSelector.elements =

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newJoinedSelector.elements.concat(addPath[0].elements.slice(1));\n
  }\n\n    // now add the joined selector - but only if it is not empty\n    if
(newJoinedSelector.elements.length !== 0) {\n      newSelectorPath.push(newJoinedSelector);\n    }\n\n    //
put together the parent selectors after the join (e.g. the rest of the parent)\n    if (addPath.length > 1) {\n      let
restOfPath = addPath.slice(1);\n      restOfPath = restOfPath.map(selector =>
selector.createDerived(selector.elements, []));\n      newSelectorPath = newSelectorPath.concat(restOfPath);\n
  }\n  return newSelectorPath;\n  }\n\n  // joins selector path from `beginningPath` with every selector path in
`addPaths` array\n  // `replacedElement` contains element that is being replaced by `addPath`\n  // returns array
with all concatenated paths\n  function addAllReplacementsIntoPath( beginningPath, addPaths, replacedElement,
originalSelector, result) {\n    let j;\n    for (j = 0;
j < beginningPath.length; j++) {\n      const newSelectorPath = addReplacementIntoPath(beginningPath[j],
addPaths, replacedElement, originalSelector);\n      result.push(newSelectorPath);\n    }\n    return result;\n
  }\n\n  function mergeElementsOnToSelectors(elements, selectors) {\n    let i;\n    let sel;\n\n    if
(elements.length === 0) {\n      return ;\n    }\n    if (selectors.length === 0) {\n      selectors.push([ new
Selector(elements) ]);\n      return;\n    }\n\n    for (i = 0; (sel = selectors[i]); i++) {\n      // if the previous
thing in sel is a parent this needs to join on to it\n      if (sel.length > 0) {\n        sel[sel.length - 1] =
sel[sel.length - 1].createDerived(sel[sel.length - 1].elements.concat(elements));\n      }\n      else {\n
sel.push(new Selector(elements));\n      }\n    }\n  }\n\n  // replace all parent selectors inside
`inSelector` by content of `context` array\n  // resulting selectors are returned inside `paths` array\n  // returns true
if `inSelector` contained at least one parent selector\n  function replaceParentSelector(paths, context, inSelector)
{\n    // The paths are [[Selector]]\n    // The first list is a list of comma separated selectors\n    // The inner
list is a list of inheritance separated selectors\n    // e.g.\n    // .a, .b\n    // .c\n    // }\n    // }\n    //
== [[.a] [.c]] [[.b] [.c]]\n    //\n    let i;\n\n    let j;\n    let k;\n    let currentElements;\n    let
newSelectors;\n    let selectorsMultiplied;\n    let sel;\n    let el;\n    let hadParentSelector = false;\n    let
length;\n    let lastSelector;\n    function findNestedSelector(element) {\n      let maybeSelector;\n      if
(!(element.value instanceof Paren)) {\n        return null;\n
      }\n\n      maybeSelector = element.value.value;\n      if (!(maybeSelector instanceof Selector)) {\n
return null;\n      }\n\n      return maybeSelector;\n    }\n\n    // the elements from the current selector so
far\n    currentElements = [];\n    // the current list of new selectors to add to the path.\n    // We will build it
up. We initiate it with one empty selector as we "multiply" the new selectors\n    // by the parents\n    newSelectors = [\n      []\n    ];\n    for (i = 0; (el = inSelector.elements[i]); i++) {\n      // non parent
reference elements just get added\n      if (el.value !== '&') {\n        const nestedSelector =
findNestedSelector(el);\n        if (nestedSelector !== null) {\n          // merge the current list of non parent
selector elements\n          // on to the current list of selectors to add\n
mergeElementsOnToSelectors(currentElements,
newSelectors);\n          const nestedPaths = [];\n          let replaced;\n          const
replacedNewSelectors = [];\n          replaced = replaceParentSelector(nestedPaths, context, nestedSelector);\n
          hadParentSelector = hadParentSelector || replaced;\n          // the nestedPaths array should have only
one member - replaceParentSelector does not multiply selectors\n          for (k = 0; k < nestedPaths.length;
k++) {\n            const replacementSelector = createSelector(createParenthesis(nestedPaths[k], el), el);\n
            addAllReplacementsIntoPath(newSelectors, [replacementSelector], el, inSelector, replacedNewSelectors);\n
          }\n          newSelectors = replacedNewSelectors;\n          currentElements = [];\n        }\n
      } else {\n        currentElements.push(el);\n      }\n    }\n\n    } else {\n      hadParentSelector = true;\n      // the new list of selectors to add\n
selectorsMultiplied = [];\n      // merge the current list of non parent selector elements\n      // on to the
current list of selectors to add\n      mergeElementsOnToSelectors(currentElements, newSelectors);\n\n      // loop through our current selectors\n      for (j = 0; j < newSelectors.length; j++) {\n        sel =
newSelectors[j];\n        // if we don't have any parent paths, the & might be in a mixin so that it can be used\n

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        // whether there are parents or not\n        if (context.length === 0) {\n            // the
combinator used on el should now be applied to the next element instead so that\n            // it is not lost\n        if (sel.length > 0) {\n            sel[0].elements.push(new
Element(el.combinator, ", el.isVariable, el._index, el._fileInfo));\n        }\n        selectorsMultiplied.push(sel);\n        } else {\n            // and the parent selectors\n        for (k = 0; k < context.length; k++) {\n            // We need to put the current selectors\n        // then join the last selector's elements on to the parents selectors\n            const newSelectorPath =
addReplacementIntoPath(sel, context[k], el, inSelector);\n            // add that to our new set of selectors\n        selectorsMultiplied.push(newSelectorPath);\n        }\n        }\n        }\n        // our new selectors has been multiplied, so reset the state\n        newSelectors = selectorsMultiplied;\n        currentElements = [];\n    }\n    }\n    // if we have any elements left over (e.g. .a& .b == .b)\n    // add them on to all the current
selectors\n    mergeElementsOnToSelectors(currentElements, newSelectors);\n    for (i = 0; i <
newSelectors.length; i++) {\n        length = newSelectors[i].length;\n        if (length > 0) {\n        paths.push(newSelectors[i]);\n        lastSelector = newSelectors[i][length - 1];\n        newSelectors[i][length - 1] = lastSelector.createDerived(lastSelector.elements, inSelector.extendList);\n        }\n    }\n    return hadParentSelector;\n    }\n    function deriveSelector(visibilityInfo, deriveFrom) {\n        const
newSelector = deriveFrom.createDerived(deriveFrom.elements, deriveFrom.extendList,
deriveFrom.evaldCondition);\n        newSelector.copyVisibilityInfo(visibilityInfo);\n        return newSelector;\n    }\n    // joinSelector code follows\n    let i;\n    let newPaths;\n    let hadParentSelector;\n    newPaths = [];\n    hadParentSelector = replaceParentSelector(newPaths, context, selector);\n    if
(!hadParentSelector) {\n        if (context.length > 0) {\n            newPaths = [];\n            for (i = 0; i < context.length;\n            i++) {\n                const concatenated = context[i].map(deriveSelector.bind(this, selector.visibilityInfo()));\n                concatenated.push(selector);\n                newPaths.push(concatenated);\n            }\n        } else {\n            newPaths = [[selector]];\n        }\n    }\n    for (i = 0; i < newPaths.length; i++) {\n        paths.push(newPaths[i]);\n    }\n    Ruleset.prototype.type = 'Ruleset';\n    Ruleset.prototype.isRuleset = true;\n    export default Ruleset;\n    "import
Node from './node';\n    import Selector from './selector';\n    import Ruleset from './ruleset';\n    import Anonymous from
 './anonymous';\n    const AtRule = function(\n        name,\n        value,\n        rules,\n        index,\n        currentFileInfo,\n        debugInfo,\n        isRooted,\n        visibilityInfo\n    ) {\n        let i;\n        this.name = name;\n        this.value = (value instanceof Node) ?
value : (value ? new Anonymous(value) : value);\n        if (rules) {\n            if (Array.isArray(rules)) {\n                this.rules
= rules;\n            } else {\n                this.rules = [rules];\n                this.rules[0].selectors = (new Selector([], null, null,
index, currentFileInfo)).createEmptySelectors();\n            }\n            for (i = 0; i < this.rules.length; i++) {\n                this.rules[i].allowImports = true;\n            }\n            this.setParent(this.rules, this);\n        }\n        this._index = index;\n        this._fileInfo = currentFileInfo;\n        this.debugInfo = debugInfo;\n        this.isRooted = isRooted || false;\n        this.copyVisibilityInfo(visibilityInfo);\n        this.allowRoot = true;\n    };\n    AtRule.prototype = new
Node();\n    AtRule.prototype.accept = function(visitor) {\n        const value = this.value;\n        const rules = this.rules;\n        if (rules) {\n            this.rules
= visitor.visitArray(rules);\n        }\n        if (value) {\n            this.value = visitor.visit(value);\n        }\n    };\n    AtRule.prototype.isRulesetLike = function() {\n        return this.rules ||
!this.isCharset();\n    };\n    AtRule.prototype.isCharset = function() {\n        return '@charset' ===
this.name;\n    };\n    AtRule.prototype.genCSS = function(context, output) {\n        const value = this.value;\n        const
rules = this.rules;\n        output.add(this.name, this.fileInfo(), this.getIndex());\n        if (value) {\n            output.add(' ');
value.genCSS(context, output);\n        }\n        if (rules) {\n            this.outputRuleset(context, output, rules);\n        } else {\n            output.add(';');\n        }\n    };\n    AtRule.prototype.eval = function(context) {\n        let mediaPathBackup;\n        let
mediaBlocksBackup;\n        let value = this.value;\n        let rules = this.rules;\n        // media stored inside other atrule
should not bubble over it\n        // backup media bubbling information\n        mediaPathBackup = context.mediaPath;\n    }

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mediaBlocksBackup = context.mediaBlocks;\n // deleted media bubbling information\n context.mediaPath =
[];\n context.mediaBlocks = [];\n if (value) {\n value = value.eval(context);\n }\n if (rules) {\n //
assuming that there is only one rule at this point - that is how parser constructs the rule\n rules =
[rules[0].eval(context)];\n rules[0].root = true;\n }\n // restore media bubbling information\n
context.mediaPath = mediaPathBackup;\n context.mediaBlocks = mediaBlocksBackup;\n return new
AtRule(this.name, value, rules,\n this.getIndex(), this.fileInfo(), this.debugInfo, this.isRooted,
this.visibilityInfo());\n};\n\nAtRule.prototype.variable = function(name) {\n if (this.rules) {\n // assuming that
there is only one rule at this point - that is how parser constructs the rule\n return
Ruleset.prototype.variable.call(this.rules[0], name);\n }\n};\n\nAtRule.prototype.find = function(...args)
{\n if (this.rules) {\n // assuming that there is only one rule at this point - that is how parser constructs the
rule\n return Ruleset.prototype.find.apply(this.rules[0], args);\n }\n};\n\nAtRule.prototype.rulesets =
function() {\n if (this.rules) {\n // assuming that there is only one rule at this point - that is how parser
constructs the rule\n return Ruleset.prototype.rulesets.apply(this.rules[0]);\n
}\n};\n\nAtRule.prototype.outputRuleset = function(context, output, rules) {\n const ruleCnt = rules.length;\n let
i;\n context.tabLevel = (context.tabLevel | 0) + 1;\n // Compressed\n if (context.compress) {\n
output.add('{');\n for (i = 0; i < ruleCnt; i++) {\n rules[i].genCSS(context, output);\n }\n
output.add('');\n context.tabLevel--;\n return;\n }\n // Non-compressed\n const tabSetStr =
`\n\n${Array(context.tabLevel).join(' ')}\n\n\n const tabRuleStr
= `${tabSetStr}`;\n if (!ruleCnt) {\n output.add(`${tabSetStr}`);\n } else {\n output.add(`
${tabRuleStr}`);\n rules[0].genCSS(context, output);\n for (i = 1; i < ruleCnt; i++) {\n
output.add(tabRuleStr);\n rules[i].genCSS(context, output);\n }\n output.add(`${tabSetStr}`);\n
}\n\n context.tabLevel--;\n};\n\nAtRule.prototype.type = 'AtRule';\n\nexport default AtRule;\n\n", "import Node from
'./node';\nimport contexts from './contexts';\nimport * as utils from './utils';\n\nconst DetachedRuleset =
function(ruleset, frames) {\n this.ruleset = ruleset;\n this.frames = frames;\n this.setParent(this.ruleset,
this);\n};\n\nDetachedRuleset.prototype = new Node();\n\nDetachedRuleset.prototype.accept = function(visitor) {\n
this.ruleset = visitor.visit(this.ruleset);\n};\n\nDetachedRuleset.prototype.eval = function(context) {\n const
frames = this.frames || utils.copyArray(context.frames);\n return
new DetachedRuleset(this.ruleset, frames);\n};\n\nDetachedRuleset.prototype.callEval = function(context) {\n
return this.ruleset.eval(this.frames ? new contexts.Eval(context, this.frames.concat(context.frames)) :
context);\n};\n\nDetachedRuleset.prototype.type = 'DetachedRuleset';\n\nDetachedRuleset.prototype.evalFirst =
true;\n\nexport default DetachedRuleset;\n\n", "import Node from './node';\nimport unitConversions from './data/unit-
conversions';\nimport * as utils from './utils';\n\nconst Unit = function(numerator, denominator, backupUnit) {\n
this.numerator = numerator ? utils.copyArray(numerator).sort() : [];\n this.denominator = denominator ?
utils.copyArray(denominator).sort() : [];\n if (backupUnit) {\n this.backupUnit = backupUnit;\n } else if
(numerator && numerator.length) {\n this.backupUnit = numerator[0];\n }\n};\n\nUnit.prototype = new
Node();\n\nUnit.prototype.clone = function() {\n return new Unit(utils.copyArray(this.numerator),
utils.copyArray(this.denominator),
this.backupUnit);\n};\n\nUnit.prototype.genCSS = function(context, output) {\n // Dimension checks the unit is
singular and throws an error if in strict math mode.\n const strictUnits = context && context.strictUnits;\n if
(this.numerator.length === 1) {\n output.add(this.numerator[0]); // the ideal situation\n } else if (!strictUnits
&& this.backupUnit) {\n output.add(this.backupUnit);\n } else if (!strictUnits && this.denominator.length)
{\n output.add(this.denominator[0]);\n }\n};\n\nUnit.prototype.toString = function() {\n let i;\n let
returnStr = this.numerator.join('*');\n for (i = 0; i < this.denominator.length; i++) {\n returnStr +=
`/${this.denominator[i]}`;\n }\n return returnStr;\n};\n\nUnit.prototype.compare = function(other) {\n return
this.is(other.toString()) ? 0 : undefined;\n};\n\nUnit.prototype.is = function(unitString) {\n return
this.toString().toUpperCase() === unitString.toUpperCase();\n};\n\nUnit.prototype.isLength
= function() {\n return RegExp('(px|em|ex|ch|rem|in|cm|mm|pc|pt|ex|vw|vh|vmin|vmax)$',
'gi').test(this.toCSS());\n};\n\nUnit.prototype.isEmpty = function() {\n return this.numerator.length === 0 &&

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this.denominator.length === 0;\n};\n\nUnit.prototype.isSingular = function() {\n  return this.numerator.length <= 1
&& this.denominator.length === 0;\n};\n\nUnit.prototype.map = function(callback) {\n  let i;\n  for (i = 0; i <
this.numerator.length; i++) {\n    this.numerator[i] = callback(this.numerator[i], false);\n  }\n  for (i = 0; i <
this.denominator.length; i++) {\n    this.denominator[i] = callback(this.denominator[i], true);\n  }\n};\n\nUnit.prototype.usedUnits = function() {\n  let group;\n  const result = {};\n  let mapUnit;\n  let
groupName;\n  mapUnit = atomicUnit => {\n    /* jshint loopfunc:true */\n    if
(group.hasOwnProperty(atomicUnit) && !result[groupName]) {\n      result[groupName]
= atomicUnit;\n    }\n    return atomicUnit;\n  };\n  for (groupName in unitConversions) {\n    if
(unitConversions.hasOwnProperty(groupName)) {\n      group = unitConversions[groupName];\n\n      this.map(mapUnit);\n    }\n  }\n  return result;\n};\n\nUnit.prototype.cancel = function() {\n  const counter =
{};\n  let atomicUnit;\n  let i;\n  for (i = 0; i < this.numerator.length; i++) {\n    atomicUnit =
this.numerator[i];\n    counter[atomicUnit] = (counter[atomicUnit] || 0) + 1;\n  }\n  for (i = 0; i <
this.denominator.length; i++) {\n    atomicUnit = this.denominator[i];\n    counter[atomicUnit] =
(counter[atomicUnit] || 0) - 1;\n  }\n  this.numerator = [];\n  this.denominator = [];\n  for (atomicUnit in
counter) {\n    if (counter.hasOwnProperty(atomicUnit)) {\n      const count = counter[atomicUnit];\n\n      if (count > 0) {\n        for (i = 0; i < count;\n          i++) {\n            this.numerator.push(atomicUnit);\n          }\n        } else if (count < 0) {\n          for (i
= 0; i < -count; i++) {\n            this.denominator.push(atomicUnit);\n          }\n        }\n      }\n    }\n  }\n  this.numerator.sort();\n  this.denominator.sort();\n};\n\nUnit.prototype.type = 'Unit';\n\nexport default
Unit;\n\n", "import Node from './node';\nimport unitConversions from './data/unit-conversions';\nimport Unit from
'./unit';\nimport Color from './color';\n\n// A number with a unit\n\nconst Dimension = function(value, unit) {\n  this.value = parseFloat(value);\n  if (isNaN(this.value)) {\n    throw new Error('Dimension is not a number.);\n  }\n  this.unit = (unit && unit instanceof Unit) ? unit :
new Unit(unit ? [unit] : undefined);\n  this.setParent(this.unit, this);\n};\n\nDimension.prototype = new Node();\n\nDimension.prototype.accept =
function(visitor) {\n  this.unit =
  visitor.visit(this.unit);\n};\n\nDimension.prototype.eval = function(context) {\n  return
this;\n};\n\nDimension.prototype.toColor = function() {\n  return new Color([this.value, this.value,
this.value]);\n};\n\nDimension.prototype.genCSS = function(context, output) {\n  if ((context &&
context.strictUnits) && !this.unit.isSingular()) {\n    throw new Error('Multiple units in dimension. Correct the
units or use the unit function. Bad unit: ${this.unit.toString()}');\n  }\n  const value = this.fround(context,
this.value);\n  let strValue = String(value);\n  if (value !== 0 && value < 0.000001 && value > -0.000001) {\n
  // would be output 1e-6 etc.\n  strValue = value.toFixed(20).replace(/0+$/, '');\n  }\n  if (context &&
context.compress) {\n    // Zero values doesn't need a unit\n    if (value === 0 && this.unit.isLength()) {\n
output.add(strValue);\n    return;\n  }\n  // Float values doesn't need a leading
zero\n  if (value > 0 && value < 1) {\n    strValue = (strValue).substr(1);\n  }\n  }\n  output.add(strValue);\n  this.unit.genCSS(context, output);\n};\n\n// In an operation between two Dimensions,\n// we default to the first Dimension's unit,\n// so `1px + 2` will yield `3px`.\n\nDimension.prototype.operate =
function(context, op, other) {\n  /* jshint noempty:false */\n  let value = this._operate(context, op, this.value,
other.value);\n  let unit = this.unit.clone();\n  if (op === '+' || op === '-') {\n    if (unit.numerator.length ===
0 && unit.denominator.length === 0) {\n      unit = other.unit.clone();\n    } else if (this.unit.backupUnit) {\n
unit.backupUnit = this.unit.backupUnit;\n    }\n  } else if (other.unit.numerator.length === 0 &&
unit.denominator.length === 0) {\n    // do nothing\n  } else {\n    other =
other.convertTo(this.unit.usedUnits());\n    if (context.strictUnits
&& other.unit.toString() !== unit.toString()) {\n      throw new Error('Incompatible units. Change the units or
use the unit function. ` +\n      `Bad units: ${unit.toString()} and ${other.unit.toString()}'.);\n    }\n  }\n  value = this._operate(context, op, this.value, other.value);\n  }\n  } else if (op === '*') {\n
unit.numerator = unit.numerator.concat(other.unit.numerator).sort();\n    unit.denominator =
unit.denominator.concat(other.unit.denominator).sort();\n    unit.cancel();\n  } else if (op === '/') {\n

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unit.numerator = unit.numerator.concat(other.unit.denominator).sort();\n    unit.denominator =
unit.denominator.concat(other.unit.numerator).sort();\n    unit.cancel();\n  }\n  return new Dimension(value,
unit);\n};\n\nDimension.prototype.compare = function(other) {\n  let a;\n  let b;\n\n  if (!(other instanceof
Dimension)) {\n    return undefined;\n  }\n\n  if (this.unit.isEmpty() || other.unit.isEmpty()) {\n    a = this;\n    b = other;\n  } else {\n    a = this.unify();\n    b = other.unify();\n    if (a.unit.compare(b.unit) !== 0) {\n      return undefined;\n    }\n  }\n\n  return
Node.numericCompare(a.value, b.value);\n};\n\nDimension.prototype.unify = function() {\n  return
this.convertTo({ length: 'px', duration: 's', angle: 'rad' });\n};\n\nDimension.prototype.convertTo =
function(conversions) {\n  let value = this.value;\n  const unit = this.unit.clone();\n  let i;\n  let groupName;\n  let group;\n  let targetUnit;\n  let derivedConversions = {};\n  let applyUnit;\n\n  if (typeof conversions ===
'string') {\n    for (i in unitConversions) {\n      if (unitConversions[i].hasOwnProperty(conversions)) {\n
        derivedConversions = {};\n        derivedConversions[i] = conversions;\n      }\n    }\n    conversions
= derivedConversions;\n  }\n  applyUnit = (atomicUnit, denominator) => {\n    /* jshint loopfunc:true */\n    if
(group.hasOwnProperty(atomicUnit)) {\n      if (denominator) {\n        value = value / (group[atomicUnit] /
group[targetUnit]);\n      } else {\n        value = value * (group[atomicUnit] / group[targetUnit]);\n
      }\n\n      return targetUnit;\n    }\n\n    return atomicUnit;\n  }; \n  for (groupName in conversions) {\n
if (conversions.hasOwnProperty(groupName)) {\n    targetUnit = conversions[groupName];\n    group =
unitConversions[groupName];\n    unit.map(applyUnit);\n  }\n}\n  unit.cancel();\n\n  return new
Dimension(value, unit);\n};\n\nDimension.prototype.type = 'Dimension';\nexport default Dimension;\n", "import
Node from './node';\nimport Color from './color';\nimport Dimension from './dimension';\nimport * as Constants
from './constants';\nconst MATH = Constants.Math;\n\nconst
Operation = function(op, operands, isSpaced) {\n  this.op = op.trim();\n  this.operands = operands;\n
this.isSpaced = isSpaced;\n};\n\nOperation.prototype = new Node();\n\nOperation.prototype.accept =
function(visitor) {\n  this.operands = visitor.visitArray(this.operands);\n}\n\nOperation.prototype.eval =
function(context) {\n  let a = this.operands[0].eval(context);\n  let b = this.operands[1].eval(context);\n  let
op;\n\n  if (context.isMathOn(this.op)) {\n    op = this.op === '/' ? '/' : this.op;\n    if (a instanceof Dimension
&& b instanceof Color) {\n      a = a.toColor();\n    }\n    if (b instanceof Dimension && a instanceof Color)
{\n      b = b.toColor();\n    }\n    if (!a.operate) {\n      if (a instanceof Operation && a.op === '/' &&
context.math === MATH.PARENS_DIVISION) {\n        return new Operation(this.op, [a, b], this.isSpaced);\n
      }\n      throw { type: 'Operation',\n        message: 'Operation on an invalid type' };\n    }\n\n    return a.operate(context, op, b);\n  } else {\n
return new Operation(this.op, [a, b], this.isSpaced);\n  }\n};\n\nOperation.prototype.genCSS = function(context,
output) {\n  this.operands[0].genCSS(context, output);\n  if (this.isSpaced) {\n    output.add(' ');\n  }\n
output.add(this.op);\n  if (this.isSpaced) {\n    output.add(' ');\n  }\n  this.operands[1].genCSS(context,
output);\n};\n\nOperation.prototype.type = 'Operation';\nexport default Operation;\n", "import Node from
'./node';\nimport Paren from './paren';\nimport Comment from './comment';\nimport Dimension from
'./dimension';\nimport * as Constants from './constants';\nconst MATH = Constants.Math;\n\nconst Expression =
function(value, noSpacing) {\n  this.value = value;\n  this.noSpacing = noSpacing;\n  if (!value) {\n    throw
new Error('Expression requires an array parameter');\n  }\n};\n\nExpression.prototype
= new Node();\n\nExpression.prototype.accept = function(visitor) {\n  this.value =
visitor.visitArray(this.value);\n};\n\nExpression.prototype.eval = function(context) {\n  let returnValue;\n  const
mathOn = context.isMathOn();\n\n  const inParenthesis = this.parens && \n    (context.math !==
MATH.STRICT_LEGACY || !this.parensInOp);\n\n  let doubleParen = false;\n  if (inParenthesis) {\n
context.inParenthesis();\n  }\n  if (this.value.length > 1) {\n    returnValue = new Expression(this.value.map(e
=> {\n      if (!e.eval) {\n        return e;\n      }\n      return e.eval(context);\n    }),
this.noSpacing);\n  } else if (this.value.length === 1) {\n    if (this.value[0].parens && !this.value[0].parensInOp
&& !context.inCalc) {\n      doubleParen = true;\n    }\n    returnValue = this.value[0].eval(context);\n  }

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else {\n    returnValue = this;\n  }\n  if (inParenthesis) {\n    context.outOfParenthesis();\n  }\n  if (this.parens && this.parensInOp && !mathOn && !doubleParen && !(returnValue instanceof Dimension)) {\n    returnValue = new Paren(returnValue);\n  }\n  return\n  returnValue;\n};\n\nExpression.prototype.genCSS = function(context, output) {\n  for (let i = 0; i <\n  this.value.length; i++) {\n    this.value[i].genCSS(context, output);\n    if (!this.noSpacing && i + 1 <\n  this.value.length) {\n      output.add(' ');\n    }\n  }\n};\n\nExpression.prototype.throwAwayComments =\nfunction() {\n  this.value = this.value.filter(v => !(v instanceof Comment));\n};\n\nExpression.prototype.type =\n'Expression';\n\nexport default Expression;\n", "import Expression from './tree/expression';\n\n\nclass functionCaller {\n  constructor(name, context, index, currentFileInfo) {\n    this.name = name.toLowerCase();\n    this.index =\n  index;\n    this.context = context;\n    this.currentFileInfo = currentFileInfo;\n\n    this.func\n  = context.frames[0].functionRegistry.get(this.name);\n  }\n\n  isValid() {\n    return Boolean(this.func);\n  }\n\n  call(args) {\n    const evalArgs = this.func.evalArgs;\n    if (evalArgs !== false) {\n      args =\n    args.map(a => a.eval(this.context));\n    }\n    // This code is terrible and should be replaced as per this issue...\n    // https://github.com/less/less.js/issues/2477\n    if (Array.isArray(args)) {\n      args = args.filter(item =>\n    {\n      if (item.type === 'Comment') {\n        return false;\n      }\n      return true;\n    })\n    .map(item => {\n      if (item.type === 'Expression') {\n        const subNodes =\n    item.value.filter(item => {\n      if (item.type === 'Comment') {\n        return false;\n      }\n      return true;\n    });\n      if (subNodes.length === 1) {\n        return subNodes[0];\n      }\n    } else {\n      return new Expression(subNodes);\n    }\n  }\n\n  return item;\n});\n\n  if (evalArgs === false) {\n    return this.func(this.context, ...args);\n  }\n  return this.func(...args);\n}\n\nexport default functionCaller;\n", "import Node from\n './node';\nimport Anonymous from './anonymous';\nimport FunctionCaller from './functions/function-\ncaller';\n\n/\n\n// A function call node.\nconst Call = function(name, args, index, currentFileInfo) {\n  this.name\n  = name;\n  this.args = args;\n  this.calc = name === 'calc';\n  this._index = index;\n  this._fileInfo =\n  currentFileInfo;\n};\n\nCall.prototype = new Node();\n\nCall.prototype.accept = function(visitor) {\n  if (this.args)\n  {\n    this.args = visitor.visitArray(this.args);\n  }\n};\n\n// When evaluating a function call, we either find the\nfunction in the functionRegistry, in which case we call it, passing the\n  evaluated arguments, if this returns null\nor we cannot find the function, we simply print it out as it appeared\n  originally [2].\n\n// The reason why we\n  evaluate the arguments, is in the case where we try to pass a\n  variable to a function, like: `saturate(@color)`.\n\n// The function should receive the value, not the variable.\n\nCall.prototype.eval = function(context) {\n  /**\n   * Turn off math for calc(), and switch back on for evaluating\n  nested functions\n   */\n  const currentMathContext =\n  context.mathOn;\n  context.mathOn = !this.calc;\n  if (this.calc || context.inCalc) {\n    context.enterCalc();\n  }\n\n  const exitCalc = () => {\n    if (this.calc || context.inCalc) {\n      context.exitCalc();\n    }\n    context.mathOn = currentMathContext;\n  };\n\n  let result;\n  const funcCaller = new FunctionCaller(this.name, context, this.getIndex(),\n  this.fileInfo);\n  if (funcCaller.isValid()) {\n    try {\n      result = funcCaller.call(this.args);\n    }\n    catch (e) {\n      if (e.hasOwnProperty('line') && e.hasOwnProperty('column')) {\n        throw e;\n      }\n      throw {\n        type: e.type || 'Runtime',\n        message: `error evaluating\n  function \\`${this.name}\\`${e.message ? `: ${e.message}` : ```,\n        index: this.getIndex(),\n        filename: this.fileInfo().filename,\n        line: e.lineNumber,\n        column: e.columnNumber\n      };\n    }\n\n    if (result !== null && result !== undefined) {\n      // Results that that are not nodes are cast as\n    Anonymous nodes\n      // Falsy values or booleans are returned as empty nodes\n      if\n    (!result instanceof Node) {\n      if (!result || result === true) {\n        result = new Anonymous(null);\n      }\n      else {\n        result = new Anonymous(result.toString());\n      }\n    }\n\n    result._index = this._index;\n    result._fileInfo = this._fileInfo;\n    return result;\n  }\n}\n\nconst args = this.args.map(a => a.eval(context));\n  exitCalc();\n  return new Call(this.name, args,\n
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this.getIndex(), this.fileInfo());\n};\n\nCall.prototype.genCSS = function(context, output) {\n
output.add(`${this.name}(`, this.fileInfo(), this.getIndex());\n\n  for (let i = 0; i < this.args.length; i++) {\n
this.args[i].genCSS(context, output);\n    if (i + 1 < this.args.length) {\n      output.add(', ');\n    }\n  }\n\n  output.add(');\n};\n\nCall.prototype.type = 'Call';\n\nexport default Call;\n", "import Node from './node';\n\nimport\n  Call from './call';\n\nconst Variable = function(name, index, currentFileInfo) {\n  this.name = name;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n};\n\nVariable.prototype = new\n  Node();\n\nVariable.prototype.eval = function(context) {\n  let variable;\n  let name = this.name;\n\n  if\n    (name.indexOf('@') === 0) {\n    name = `@${new Variable(name.slice(1), this.getIndex(),\n      this.fileInfo()).eval(context).value}`;\n  }\n\n  if (this.evaluating) {\n    throw { type: 'Name',\n      message:\n        `Recursive variable definition for ${name}`, \n      filename: this.fileInfo().filename, \n      index:\n        this.getIndex() }\n  }\n\n  this.evaluating = true;\n\n  variable = this.find(context.frames, frame => {\n    const\n      v = frame.variable(name);\n    if (v) {\n      if (v.important) {\n        const importantScope =\n          context.importantScope[context.importantScope.length - 1];\n        importantScope.important\n          = v.important;\n      }\n      // If in calc, wrap vars in a function call to cascade evaluate args first\n      if\n        (context.inCalc) {\n          return (new Call(`_SELF`, [v.value])).eval(context);\n        }\n      else {\n        return v.value.eval(context);\n      }\n    }\n  });\n\n  if (variable) {\n    this.evaluating = false;\n    return\n      variable;\n  } else {\n    throw { type: 'Name',\n      message: `variable ${name} is undefined`, \n      filename: this.fileInfo().filename, \n      index: this.getIndex() }\n  }\n};\n\nVariable.prototype.find =\n  function(obj, fun) {\n    for (let i = 0, r; i < obj.length; i++) {\n      r = fun.call(obj, obj[i]);\n      if (r) { return r; }\n    }\n    return null;\n};\n\nVariable.prototype.type = 'Variable';\n\nexport default Variable;\n", "import Node from\n  './node';\n\nimport Declaration from './declaration';\n\nconst Property = function(name,\n  index, currentFileInfo) {\n  this.name = name;\n  this._index = index;\n  this._fileInfo =\n    currentFileInfo;\n};\n\nProperty.prototype = new Node();\n\nProperty.prototype.eval = function(context) {\n  let\n    property;\n  const name = this.name;\n  // TODO: shorten this reference\n  const mergeRules =\n    context.pluginManager.less.visitors.ToCSSVisitor.prototype._mergeRules;\n\n  if (this.evaluating) {\n    throw {\n      type: 'Name',\n      message: `Recursive property reference for ${name}`, \n      filename:\n        this.fileInfo().filename, \n      index: this.getIndex() }\n  }\n\n  this.evaluating = true;\n\n  property =\n    this.find(context.frames, frame => {\n      let v;\n      const vArr = frame.property(name);\n      if (vArr) {\n        for (let i = 0; i < vArr.length; i++) {\n          v = vArr[i];\n\n          vArr[i] = new Declaration(v.name, \n            v.value, \n            v.important, \n            v.merge, \n            v.index, \n            v.currentFileInfo, \n            v.inline, \n            v.variable\n          );\n        }\n        mergeRules(vArr);\n        v = vArr[vArr.length - 1];\n        if (v.important) {\n          const\n            importantScope = context.importantScope[context.importantScope.length - 1];\n          importantScope.important\n            = v.important;\n        }\n        v = v.value.eval(context);\n        return v;\n      }\n    });\n\n  if (property) {\n    this.evaluating = false;\n    return property;\n  } else {\n    throw { type: 'Name',\n      message: `Property\n        '${name}' is undefined`, \n      filename: this.currentFileInfo.filename, \n      index: this.index }\n  }\n};\n\nProperty.prototype.find = function(obj, fun) {\n  for (let i = 0, r; i < obj.length; i++) {\n    r =\n      fun.call(obj, obj[i]);\n    if (r) { return r; }\n  }\n  return null;\n};\n\nProperty.prototype.type\n  = 'Property';\n\nexport default Property;\n", "import Node from './node';\n\nconst Attribute = function(key, op, value)\n  {\n    this.key = key;\n    this.op = op;\n    this.value = value;\n};\n\nAttribute.prototype = new\n  Node();\n\nAttribute.prototype.eval = function(context) {\n  return new Attribute(this.key.eval ?\n    this.key.eval(context) : this.key, \n    this.op, \n    (this.value && this.value.eval) ? this.value.eval(context) :\n    this.value);\n};\n\nAttribute.prototype.genCSS = function(context, output) {\n  output.add(this.toCSS(context));\n};\n\nAttribute.prototype.toCSS = function(context) {\n  let value =\n    this.key.toCSS ? this.key.toCSS(context) : this.key;\n\n  if (this.op) {\n    value += this.op;\n    value +=\n      (this.value.toCSS ? this.value.toCSS(context) : this.value);\n  }\n\n  return\n    `[${value}]`;\n};\n\nAttribute.prototype.type = 'Attribute';\n\nexport default Attribute;\n", "import Node from\n  './node';\n\nimport Variable from './variable';\n\nimport

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Property from './property';\n\nconst Quoted = function(str, content, escaped, index, currentFileInfo) {\n
this.escaped = (escaped == null) ? true : escaped;\n  this.value = content || "";\n  this.quote = str.charAt(0);\n
this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.variableRegex = /@\{\{([\w-]+\)\}\}/g;\n
this.propRegex = /\$\{\{([\w-]+\)\}\}/g;\n  this.allowRoot = escaped;\n};\n\nQuoted.prototype = new
Node();\n\nQuoted.prototype.genCSS = function(context, output) {\n  if (!this.escaped) {\n
output.add(this.quote, this.fileInfo(), this.getIndex());\n  }\n  output.add(this.value);\n  if (!this.escaped) {\n
output.add(this.quote);\n  }\n};\n\nQuoted.prototype.containsVariables = function() {\n  return
this.value.match(this.variableRegex);\n};\n\nQuoted.prototype.eval = function(context) {\n  const that = this;\n
let value = this.value;\n  const variableReplacement = (_, name) => {\n    const v = new
Variable(`@${name}`, that.getIndex(), that.fileInfo()).eval(context, true);\n    return (v instanceof Quoted) ?
v.value : v.toCSS();\n  };\n  const propertyReplacement = (_, name) => {\n    const v = new
Property(`$$${name}`, that.getIndex(), that.fileInfo()).eval(context, true);\n    return (v instanceof Quoted) ?
v.value : v.toCSS();\n  };\n  function iterativeReplace(value, regexp, replacementFnc) {\n    let evaluatedValue
= value;\n    do {\n      value = evaluatedValue.toString();\n      evaluatedValue = value.replace(regexp,
replacementFnc);\n    } while (value !== evaluatedValue);\n    return evaluatedValue;\n  }\n  value =
iterativeReplace(value, this.variableRegex, variableReplacement);\n  value = iterativeReplace(value,
this.propRegex, propertyReplacement);\n  return new Quoted(this.quote + value + this.quote, value, this.escaped,
this.getIndex(), this.fileInfo());\n};\n\nQuoted.prototype.compare = function(other) {\n
  // when comparing quoted strings allow the quote to differ\n  if (other.type === 'Quoted' && !this.escaped &&
!other.escaped) {\n    return Node.numericCompare(this.value, other.value);\n  } else {\n    return other.toCSS()
&& this.toCSS() === other.toCSS() ? 0 : undefined;\n  }\n};\n\nQuoted.prototype.type = 'Quoted';\n\nexport default
Quoted;\n\n", "import Node from './node';\n\nconst URL = function(val, index, currentFileInfo, isEvald) {\n
this.value = val;\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.isEvald =
isEvald;\n};\n\nURL.prototype = new Node();\n\nURL.prototype.accept = function(visitor) {\n  this.value =
visitor.visit(this.value);\n};\n\nURL.prototype.genCSS = function(context, output) {\n  output.add('url()');\n
this.value.genCSS(context, output);\n  output.add('');\n};\n\nURL.prototype.eval = function(context) {\n  const
val = this.value.eval(context);\n  let rootpath;\n\n  if (!this.isEvald) {\n    // Add the
rootpath if the URL requires a rewrite\n    rootpath = this.fileInfo() && this.fileInfo().rootpath;\n    if (typeof
rootpath === 'string' &&\n      typeof val.value === 'string' &&\n
context.pathRequiresRewrite(val.value)) {\n      if (!val.quote) {\n        rootpath = escapePath(rootpath);\n
      }\n      val.value = context.rewritePath(val.value, rootpath);\n    } else {\n      val.value =
context.normalizePath(val.value);\n    }\n\n    // Add url args if enabled\n    if (context.urlArgs) {\n      if
(!val.value.match(/^\\s*data:/)) {\n        const delimiter = val.value.indexOf('?') === -1 ? '?' : '&';\n
const urlArgs = delimiter + context.urlArgs;\n        if (val.value.indexOf('#') !== -1) {\n          val.value =
val.value.replace('#', ` ${urlArgs}#`);\n        } else {\n          val.value += urlArgs;\n        }\n
      }\n    }\n  }\n\n  return new URL(val, this.getIndex(), this.fileInfo(), true);\n};\n\nURL.prototype.type =
'Url';\n\nfunction escapePath(path) {\n  return path.replace(/[\(\)\\"'\s]/g, match => `\\${match}`);\n}\n\nexport
default URL;\n\n", "import Ruleset from './ruleset';\nimport Value from './value';\nimport Selector from
 './selector';\nimport Anonymous from './anonymous';\nimport Expression from './expression';\nimport AtRule from
 './atrule';\nimport * as utils from './utils';\n\nconst Media = function(value, features, index, currentFileInfo,
visibilityInfo) {\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n\n  const selectors = (new Selector([],
null, null, this._index, this._fileInfo)).createEmptySelectors();\n\n  this.features = new Value(features);\n
this.rules = [new Ruleset(selectors, value)];\n  this.rules[0].allowImports = true;\n
this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot = true;\n  this.setParent(selectors, this);\n
  this.setParent(this.features, this);\n  this.setParent(this.rules, this);\n}\n\nMedia.prototype = new
AtRule();\n\nMedia.prototype.isRulesetLike = function() {\n  return true;\n};\n\nMedia.prototype.accept =
function(visitor) {\n  if (this.features) {\n    this.features = visitor.visit(this.features);\n  }\n  if (this.rules) {\n

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    this.rules = visitor.visitArray(this.rules);\n  }\n};\n\nMedia.prototype.genCSS = function(context, output) {\n
output.add('@media ', this._fileInfo, this._index);\n  this.features.genCSS(context, output);\n
this.outputRuleset(context, output, this.rules);\n};\n\nMedia.prototype.eval = function(context) {\n  if
(!context.mediaBlocks) {\n    context.mediaBlocks = [];\n    context.mediaPath = [];\n  }\n  const media =
new Media(null, [], this._index, this._fileInfo, this.visibilityInfo());\n  if (this.debugInfo) {\n
this.rules[0].debugInfo = this.debugInfo;\n    media.debugInfo = this.debugInfo;\n  }\n
  \n  media.features = this.features.eval(context);\n  context.mediaPath.push(media);\n
context.mediaBlocks.push(media);\n\n  this.rules[0].functionRegistry =
context.frames[0].functionRegistry.inherit();\n  context.frames.unshift(this.rules[0]);\n  media.rules =
[this.rules[0].eval(context)];\n  context.frames.shift();\n\n  context.mediaPath.pop();\n  return
context.mediaPath.length === 0 ? media.evalTop(context) :\n
media.evalNested(context);\n};\n\nMedia.prototype.evalTop = function(context) {\n  let result = this;\n  //
Render all dependent Media blocks.\n  if (context.mediaBlocks.length > 1) {\n    const selectors = (new
Selector([], null, null, this.getIndex(), this.fileInfo())).createEmptySelectors();\n    result = new Ruleset(selectors,
context.mediaBlocks);\n    result.multiMedia = true;\n    result.copyVisibilityInfo(this.visibilityInfo());\n
this.setParent(result, this);\n  }\n  delete context.mediaBlocks;\n
  delete context.mediaPath;\n  return result;\n};\n\nMedia.prototype.evalNested = function(context) {\n  let i;\n
let value;\n  const path = context.mediaPath.concat([this]);\n  // Extract the media-query conditions separated
with ` ` (OR).\n  for (i = 0; i < path.length; i++) {\n    value = path[i].features instanceof Value ?\n
path[i].features.value : path[i].features;\n    path[i] = Array.isArray(value) ? value : [value];\n  }\n  // Trace all
permutations to generate the resulting media-query.\n  // (a, b and c) with nested (d, e) ->\n  // a and d\n
// a and e\n  // b and c and d\n  // b and c and e\n  this.features = new Value(this.permute(path).map(path =>
{\n    path = path.map(fragment => fragment.toCSS ? fragment : new Anonymous(fragment));\n    for (i =
path.length - 1; i > 0; i--) {\n      path.splice(i, 0, new Anonymous('and'));\n    }\n    return new
Expression(path);\n  }));\n  this.setParent(this.features, this);\n  // Fake a tree-node that doesn't output anything.\n  return new
Ruleset([], []);\n};\n\nMedia.prototype.permute = function(arr) {\n  if (arr.length === 0) {\n    return [];\n  }
else if (arr.length === 1) {\n    return arr[0];\n  } else {\n    const result = [];\n    const rest =
this.permute(arr.slice(1));\n    for (let i = 0; i < rest.length; i++) {\n      for (let j = 0; j < arr[0].length; j++) {\n
result.push([arr[0][j].concat(rest[i]));\n      }\n    }\n    return result;\n  }\n};\n\nMedia.prototype.bubbleSelectors = function(selectors) {\n  if (!selectors) {\n    return;\n  }\n
this.rules = [new Ruleset(utils.copyArray(selectors), [this.rules[0]])];\n  this.setParent(this.rules,
this);\n};\n\nMedia.prototype.type = 'Media';\nexport default Media;\n", "import Node from './node';\nimport Media
from './media';\nimport URL from './url';\nimport Quoted
from './quoted';\nimport Ruleset from './ruleset';\nimport Anonymous from './anonymous';\nimport * as utils from
'./utils';\nimport LessError from './less-error';\n\n/\n\n CSS @import node\n\n The general strategy here is that
we don't want to wait\n for the parsing to be completed, before we start importing\n the file. That's because in the
context of a browser,\n most of the time will be spent waiting for the server to respond.\n\n On creation, we
push the import path to our import queue, though\n import, push`, we also pass it a callback, which it'll call
once\n the file has been fetched, and parsed.\n\n const Import = function(path, features, options, index,
currentFileInfo, visibilityInfo) {\n  this.options = options;\n  this._index = index;\n  this._fileInfo =
currentFileInfo;\n  this.path = path;\n  this.features = features;\n  this.allowRoot = true;\n\n  if (this.options.less
!== undefined || this.options.inline) {\n    this.css = !this.options.less
|| this.options.inline;\n  } else {\n    const pathValue = this.getPath();\n    if (pathValue &&
/#[\\.|\\&\\?]?css(?:[\\?;]*\\$)?\\.test(pathValue)) {\n      this.css = true;\n    }\n  }\n
  this.copyVisibilityInfo(visibilityInfo);\n  this.setParent(this.features, this);\n  this.setParent(this.path,
this);\n};\n\nImport.prototype = new Node();\n\nImport.prototype.accept = function(visitor) {\n  if (this.features)
{\n    this.features = visitor.visit(this.features);\n  }\n  this.path = visitor.visit(this.path);\n  if

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(!this.options.isPlugin && !this.options.inline && this.root) {\n    this.root = visitor.visit(this.root);\n
}\n};\n\nImport.prototype.genCSS = function(context, output) {\n    if (this.css && this.path._fileInfo.reference ===\n
undefined) {\n        output.add('@import ', this._fileInfo, this._index);\n        this.path.genCSS(context, output);\n
if (this.features) {\n            output.add(';');\n            this.features.genCSS(context,\n
output);\n        }\n        output.add(';');\n    }\n};\n\nImport.prototype.getPath = function() {\n    return (this.path\n
instanceof URL) ?\n        this.path.value.value : this.path.value;\n};\n\nImport.prototype.isVariableImport =\n
function() {\n    let path = this.path;\n    if (path instanceof URL) {\n        path = path.value;\n    }\n    if (path\n
instanceof Quoted) {\n        return path.containsVariables();\n    }\n\n    return\n
true;\n};\n\nImport.prototype.evalForImport = function(context) {\n    let path = this.path;\n\n    if (path instanceof\n
URL) {\n        path = path.value;\n    }\n\n    return new Import(path.eval(context), this.features, this.options,\n
this._index, this._fileInfo, this.visibilityInfo());\n};\n\nImport.prototype.evalPath = function(context) {\n    const\n
path = this.path.eval(context);\n    const fileInfo = this._fileInfo;\n\n    if (!(path instanceof URL)) {\n        // Add the\n
rootpath if the URL requires a rewrite\n        const pathValue\n
= path.value;\n        if (fileInfo &&\n            pathValue &&\n            context.pathRequiresRewrite(pathValue)) {\n\n
            path.value = context.rewritePath(pathValue, fileInfo.rootpath);\n        } else {\n            path.value =\n
context.normalizePath(path.value);\n        }\n    }\n\n    return path;\n};\n\nImport.prototype.eval = function(context)\n
{\n    const result = this.doEval(context);\n    if (this.options.reference || this.blocksVisibility()) {\n        if\n
(result.length || result.length === 0) {\n            result.forEach(node => {\n                node.addVisibilityBlock();\n
            })\n        } else {\n            result.addVisibilityBlock();\n        }\n    }\n\n    return\n
result;\n};\n\nImport.prototype.doEval = function(context) {\n    let ruleset;\n    let registry;\n    const features =\n
this.features && this.features.eval(context);\n\n    if (this.options.isPlugin) {\n        if (this.root && this.root.eval)\n
{\n            try {\n\n                this.root.eval(context);\n            }\n            catch (e) {\n                e.message = 'Plugin error during\n
evaluation';\n                throw new LessError(e, this.root.imports, this.root.filename);\n            }\n        }\n\n        registry = context.frames[0] && context.frames[0].functionRegistry;\n        if ( registry && this.root &&\n
this.root.functions ) {\n            registry.addMultiple( this.root.functions );\n        }\n\n        return [];\n    }\n\n    if\n
(this.skip) {\n        if (typeof this.skip === 'function') {\n            this.skip = this.skip();\n        }\n        if (this.skip) {\n\n            return [];\n        }\n    }\n\n    if (this.options.inline) {\n        const contents = new Anonymous(this.root, 0,\n
{\n            filename: this.importedFilename,\n            reference: this.path._fileInfo &&\n
this.path._fileInfo.reference\n        }, true, true);\n\n        return this.features ? new Media([contents],\n
this.features.value)\n        : [contents];\n    } else if (this.css) {\n        const newImport = new Import(this.evalPath(context), features,\n
this.options, this._index);\n        if (!newImport.css && this.error) {\n            throw this.error;\n        }\n        return\n
newImport;\n    } else if (this.root) {\n        ruleset = new Ruleset(null, utils.copyArray(this.root.rules));\n\n        ruleset.evalImports(context);\n\n        return this.features ? new Media(ruleset.rules, this.features.value) :\n
ruleset.rules;\n    } else {\n        return [];\n    }\n};\n\nImport.prototype.type = 'Import';\n\nexport default\n
Import;\n\n", "import Node from './node';\nimport Variable from './variable';\n\nconst JsEvalNode = function()\n
{\n};\n\nJsEvalNode.prototype = new Node();\n\nJsEvalNode.prototype.evaluateJavaScript = function(expression,\n
context) {\n    let result;\n    const that = this;\n    const evalContext = {};\n\n    if (!context.javascriptEnabled) {\n\n        throw {\n            message: 'Inline JavaScript is not enabled.\n\n            Is it set in your options?',\n            filename: this.fileInfo().filename,\n            index: this.getIndex() }\n    }\n\n    expression = expression.replace(/@\{\{([\w-]+\)\}\}/g, (_, name) => that.jsify(new Variable(`@${name}`,\n
that.getIndex(), that.fileInfo().eval(context)));\n\n    try {\n        expression = new Function(`return\n
(${expression})`);\n    } catch (e) {\n        throw {\n            message: `JavaScript evaluation error: ${e.message} from\n
\`${expression}\``,\n            filename: this.fileInfo().filename,\n            index: this.getIndex() }\n    }\n\n    const\n
variables = context.frames[0].variables();\n    for (const k in variables) {\n        if (variables.hasOwnProperty(k)) {\n\n            /* jshint loopfunc:true */\n            evalContext[k.slice(1)] = {\n                value: variables[k].value,\n
toJS: function () {\n                    return this.value.eval(context).toCSS();\n                }\n            }\n        }\n    }\n}

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try {
  result = expression.call(evalContext);
} catch (e) {
  throw { message: `JavaScript evaluation error:
${e.name}: ${e.message.replace(/[\r]/g, "\\r")} `,
  filename: this.fileInfo().filename,
  index:
this.getIndex() };
}
return result;
};
JsEvalNode.prototype.jsify = function(obj) {
  if
(Array.isArray(obj.value) && (obj.value.length > 1)) {
    return `[${obj.value.map(v => v.toCSS()).join(
')}]`;
  } else {
    return obj.toCSS();
  }
};
export default JsEvalNode;
", "import JsEvalNode from
'./js-eval-node';
import Dimension from './dimension';
import Quoted from './quoted';
import Anonymous from
'./anonymous';
const JavaScript = function(string, escaped, index, currentFileInfo) {
  this.escaped = escaped;
  this.expression = string;
  this._index = index;
  this._fileInfo = currentFileInfo;
};
JavaScript.prototype =
new JsEvalNode();
JavaScript.prototype.eval = function(context)
{
  const result = this.evaluateJavaScript(this.expression, context);
  const type = typeof result;
  if (type
=== 'number' && !isNaN(result)) {
    return new Dimension(result);
  } else if (type === 'string') {
    return new Quoted(`"${result}"`, result, this.escaped, this._index);
  } else if (Array.isArray(result)) {
    return new Anonymous(result.join(', '));
  } else {
    return new Anonymous(result);
  }
};
JavaScript.prototype.type = 'JavaScript';
export default JavaScript;
", "import Node from
'./node';
const Assignment = function(key, val) {
  this.key = key;
  this.value =
val;
};
Assignment.prototype = new Node();
Assignment.prototype.accept = function(visitor) {
  this.value
= visitor.visit(this.value);
};
Assignment.prototype.eval = function(context) {
  if (this.value.eval) {
    return new Assignment(this.key, this.value.eval(context));
  }
  return
this;
};
Assignment.prototype.genCSS
= function(context, output) {
  output.add(`${this.key}=`);
  if (this.value.genCSS) {
    this.value.genCSS(context, output);
  } else {
    output.add(this.value);
  }
};
Assignment.prototype.type = 'Assignment';
export default Assignment;
", "import Node from
'./node';
const Condition = function(op, l, r, i, negate) {
  this.op = op.trim();
  this.lvalue = l;
  this.rvalue
= r;
  this._index = i;
  this.negate = negate;
};
Condition.prototype = new
Node();
Condition.prototype.accept = function(visitor) {
  this.lvalue = visitor.visit(this.lvalue);
  this.rvalue
= visitor.visit(this.rvalue);
};
Condition.prototype.eval = function(context) {
  const result = ((op, a, b) => {
    switch (op) {
      case 'and': return a && b;
      case 'or': return a || b;
      default:
switch (Node.compare(a, b)) {
        case -1:
          return op ===
'<' || op === '<=' || op === '<=';
        case 0:
          return op === '=' || op === '>=' || op === '<=' ||
op === '<=';
        case 1:
          return op === '>' || op === '>=';
        default:
          return false;
      }
    })(this.op, this.lvalue.eval(context), this.rvalue.eval(context));
  }
  return
this.negate ? !result : result;
};
Condition.prototype.type = 'Condition';
export default Condition;
", "import
Node from './node';
const UnicodeDescriptor = function(value) {
  this.value =
value;
};
UnicodeDescriptor.prototype = new Node();
UnicodeDescriptor.prototype.type =
'UnicodeDescriptor';
export default UnicodeDescriptor;
", "import Node from './node';
import Operation from
'./operation';
import Dimension from './dimension';
const Negative = function(node) {
  this.value =
node;
};
Negative.prototype = new Node();
Negative.prototype.genCSS
= function(context, output) {
  output.add('-');
  this.value.genCSS(context,
output);
};
Negative.prototype.eval = function(context) {
  if (context.isMathOn()) {
    return (new
Operation('*', [new Dimension(-1), this.value])).eval(context);
  }
  return new
Negative(this.value.eval(context));
};
Negative.prototype.type = 'Negative';
export default
Negative;
", "import Node from './node';
import Selector from './selector';
const Extend = function(selector,
option, index, currentFileInfo, visibilityInfo) {
  this.selector = selector;
  this.option = option;
  this.object_id
= Extend.next_id++;
  this.parent_ids = [this.object_id];
  this._index = index;
  this._fileInfo =
currentFileInfo;
  this.copyVisibilityInfo(visibilityInfo);
  this.allowRoot = true;
  switch (option) {
    case 'all':
      this.allowBefore = true;
      this.allowAfter = true;
      break;
    default:

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        this.allowBefore = false;\n        this.allowAfter = false;\n        break;\n    }\n    this.setParent(this.selector,
this);\n};\n\nExtend.prototype = new Node();\n\nExtend.prototype.accept = function(visitor) {\n    this.selector =
visitor.visit(this.selector);\n};\n\nExtend.prototype.eval = function(context) {\n    return new
Extend(this.selector.eval(context), this.option, this.getIndex(), this.fileInfo(),
this.visibilityInfo());\n};\n\nExtend.prototype.clone = function(context) {\n    return new Extend(this.selector,
this.option, this.getIndex(), this.fileInfo(), this.visibilityInfo());\n};\n\n// it concatenates (joins) all selectors in
selector array\n\nExtend.prototype.findSelfSelectors = function(selectors) {\n    let selfElements = [];\n    let i;\n    let
selectorElements;\n\n    for (i = 0; i < selectors.length; i++) {\n        selectorElements = selectors[i].elements;\n
\n        // duplicate the logic in genCSS function inside the selector node.\n        // future
        TODO - move both logics into the selector joiner visitor\n        if (i > 0 && selectorElements.length &&
selectorElements[0].combinator.value === ") {\n            selectorElements[0].combinator.value = ' ';\n        }\n
\n        selfElements = selfElements.concat(selectors[i].elements);\n    }\n\n    this.selfSelectors = [new
Selector(selfElements)];\n\n    this.selfSelectors[0].copyVisibilityInfo(this.visibilityInfo());\n};\n\n/**\n * Used with
the extend visitor\n *^\n\nExtend.next_id = 0;\n\nExtend.prototype.type = 'Extend';\n\nexport default Extend;\n", "import
Node from './node';\n\nimport Variable from './variable';\n\nimport Ruleset from './ruleset';\n\nimport DetachedRuleset
from './detached-ruleset';\n\nimport LessError from './less-error';\n\nconst VariableCall = function(variable, index,
currentFileInfo) {\n    this.variable = variable;\n    this._index = index;\n    this._fileInfo = currentFileInfo;\n
\n    this.allowRoot = true;\n};\n\nVariableCall.prototype = new Node();\n\nVariableCall.prototype.eval
= function(context) {\n    let rules;\n    let detachedRuleset = new Variable(this.variable, this.getIndex(),
this.fileInfo()).eval(context);\n    const error = new LessError({message: `Could not evaluate variable call
${this.variable}`});\n\n    if (!detachedRuleset.ruleset) {\n        if (detachedRuleset.rules) {\n            rules =
detachedRuleset;\n        }\n        else if (Array.isArray(detachedRuleset)) {\n            rules = new Ruleset(",
detachedRuleset);\n        }\n        else if (Array.isArray(detachedRuleset.value)) {\n            rules = new Ruleset(",
detachedRuleset.value);\n        }\n        else {\n            throw error;\n        }\n        detachedRuleset = new
DetachedRuleset(rules);\n    }\n\n    if (detachedRuleset.ruleset) {\n        return detachedRuleset.callEval(context);\n
    }\n    throw error;\n};\n\nVariableCall.prototype.type = 'VariableCall';\n\nexport default VariableCall;\n", "import
Node from './node';\n\nimport Variable from './variable';\n\nimport
Ruleset from './ruleset';\n\nimport Selector from './selector';\n\nconst NamespaceValue = function(ruleCall, lookups,
index, fileInfo) {\n    this.value = ruleCall;\n    this.lookups = lookups;\n    this._index = index;\n    this._fileInfo =
fileInfo;\n};\n\nNamespaceValue.prototype = new Node();\n\nNamespaceValue.prototype.eval = function(context)
{\n    let i;\n    let j;\n    let name;\n    let rules = this.value.eval(context);\n\n    for (i = 0; i < this.lookups.length; i++)
{\n        name = this.lookups[i];\n\n        /**\n         * Eval'd DRs return rulesets.\n         * Eval'd mixins return rules,
so let's make a ruleset if we need it.\n         * We need to do this because of late parsing of values\n         *^\n        if
(Array.isArray(rules)) {\n            rules = new Ruleset([new Selector()], rules);\n        }\n\n        if (name === ") {\n
            rules = rules.lastDeclaration();\n        }\n        else if (name.charAt(0) === '@') {\n            if
(name.charAt(1) === '@') {\n                name = `@${new Variable(name.substr(1)).eval(context).value}`;\n            }\n
            if (rules.variables) {\n                rules = rules.variable(name);\n            }\n            \n            if (!rules) {\n
                throw { type: 'Name',\n                    message: `variable ${name} not found`,\n                    filename:
this.fileInfo().filename,\n                    index: this.getIndex() }; \n            }\n            else {\n                if
(name.substr(0, 2) === '$@') {\n                    name = `$$${new Variable(name.substr(1)).eval(context).value}`;\n                }\n
                else {\n                    name = name.charAt(0) === '$' ? name : `$$${name}`;\n                }\n                if
(rules.properties) {\n                    rules = rules.property(name);\n                }\n                \n                if (!rules) {\n
                    throw
{ type: 'Name',\n                        message: `property \"${name.substr(1)}\" not found`,\n                        filename:
this.fileInfo().filename,\n                        index: this.getIndex() }; \n                }\n                // Properties
are an array of values, since a ruleset can have multiple props.\n                // We pick the last one (the \"cascaded\"
value)\n                rules = rules[rules.length - 1];\n            }\n            if (rules.value) {\n                rules =
rules.eval(context).value;\n            }\n            if (rules.ruleset) {\n                rules = rules.ruleset.eval(context);\n            }\n
        }\n        return rules;\n};\n\nNamespaceValue.prototype.type = 'NamespaceValue';\n\nexport default

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NamespaceValue;\n","import Selector from './selector';\nimport Element from './element';\nimport Ruleset from
 './ruleset';\nimport Declaration from './declaration';\nimport DetachedRuleset from './detached-ruleset';\nimport
 Expression from './expression';\nimport contexts from './contexts';\nimport * as utils from './utils';\n\nconst
 Definition = function(name, params, rules, condition,
  variadic, frames, visibilityInfo) {\n  this.name = name || 'anonymous mixin';\n  this.selectors = [new
 Selector([new Element(null, name, false, this._index, this._fileInfo)]);\n  this.params = params;\n  this.condition
 = condition;\n  this.variadic = variadic;\n  this.arity = params.length;\n  this.rules = rules;\n  this._lookups =
 {};\n  const optionalParameters = [];\n  this.required = params.reduce((count, p) => {\n    if (!p.name || (p.name
 && !p.value)) {\n      return count + 1;\n    } else {\n      optionalParameters.push(p.name);\n    }\n  }, 0);\n  this.optionalParameters = optionalParameters;\n  this.frames = frames;\n  this.copyVisibilityInfo(visibilityInfo);\n  this.allowRoot = true;\n};\n\nDefinition.prototype = new
 Ruleset();\n\nDefinition.prototype.accept = function(visitor) {\n  if (this.params && this.params.length) {\n    this.params = visitor.visitArray(this.params);\n  }\n  this.rules = visitor.visitArray(this.rules);\n  if (this.condition) {\n    this.condition =
 visitor.visit(this.condition);\n  }\n};\n\nDefinition.prototype.evalParams = function(context, mixinEnv, args,
 evaldArguments) {\n  /* jshint boss:true */\n  const frame = new Ruleset(null, null);\n  let varargs;\n  let
 arg;\n  const params = utils.copyArray(this.params);\n  let i;\n  let j;\n  let val;\n  let name;\n  let
 isNamedFound;\n  let argIndex;\n  let argsLength = 0;\n  if (mixinEnv.frames && mixinEnv.frames[0] &&
 mixinEnv.frames[0].functionRegistry) {\n    frame.functionRegistry =
 mixinEnv.frames[0].functionRegistry.inherit();\n  }\n  mixinEnv = new contexts.Eval(mixinEnv,
 [frame].concat(mixinEnv.frames));\n  if (args) {\n    args = utils.copyArray(args);\n    argsLength =
 args.length;\n    for (i = 0; i < argsLength; i++) {\n      arg = args[i];\n      if (name = (arg && arg.name))\n        {\n
          isNamedFound = false;\n          for (j = 0; j < params.length; j++) {\n            if (!evaldArguments[j] &&
 name === params[j].name) {\n              evaldArguments[j] = arg.value.eval(context);\n              frame.prependRule(new Declaration(name, arg.value.eval(context));\n              isNamedFound = true;\n              break;\n            }\n          }\n          if (isNamedFound) {\n            args.splice(i, 1);\n            i--;\n            continue;\n          } else {\n            throw { type: 'Runtime', message: `Named argument for ${this.name} ${args[i].name} not found` };\n          }\n          argIndex = 0;\n          for (i = 0; i < params.length; i++) {\n            if (evaldArguments[i]) { continue; }\n            arg = args && args[argIndex];\n            if (name = params[i].name) {\n              if (params[i].variadic) {\n                varargs = [];\n                for (j = argIndex; j < argsLength; j++) {\n                  varargs.push(args[j].value.eval(context));\n                }\n                frame.prependRule(new Declaration(name, new Expression(varargs).eval(context));\n                } else {\n                  val = arg && arg.value;\n                  if (val) {\n                    // This was a mixin call, pass in a detached ruleset of it's eval'd rules\n                    if (Array.isArray(val)) {\n                      val = new DetachedRuleset(new Ruleset("", val));\n                    } else {\n                      val = val.eval(context);\n                    } else if (params[i].value) {\n                      val = params[i].value.eval(mixinEnv);\n                    } else {\n                      frame.resetCache();\n                    } else {\n                      throw { type: 'Runtime', message: `wrong number of arguments for ${this.name} (${argsLength} for ${this.arity})` }\n                    }\n                  }\n                  frame.prependRule(new Declaration(name, val));\n                  evaldArguments[i] = val;\n                }\n                }\n                if (params[i].variadic && args) {\n                  for (j = argIndex; j < argsLength; j++) {\n                    evaldArguments[j] = args[j].value.eval(context);\n                  }\n                }\n                argIndex++;\n              }\n            }\n            return frame;\n          }\n\nDefinition.prototype.makeImportant = function() {\n  const rules = !this.rules ? this.rules :
 this.rules.map(r => {\n    if (r.makeImportant) {\n      return r.makeImportant(true);\n    } else {\n      return r;\n    }\n  });\n  const result = new Definition(this.name, this.params, rules, this.condition, this.variadic, this.frames);\n  return result;\n};\n\nDefinition.prototype.eval = function(context) {\n  return new
 Definition(this.name, this.params, this.rules, this.condition, this.variadic, this.frames ||
 utils.copyArray(context.frames));\n};\n\nDefinition.prototype.evalCall

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= function(context, args, important) {\n  const _arguments = [];\n  const mixinFrames = this.frames ?
this.frames.concat(context.frames) : context.frames;\n  const frame = this.evalParams(context, new
contexts.Eval(context, mixinFrames), args, _arguments);\n  let rules;\n  let ruleset;\n\n  frame.prependRule(new
Declaration('@arguments', new Expression(_arguments).eval(context)));\n\n  rules =
utils.copyArray(this.rules);\n\n  ruleset = new Ruleset(null, rules);\n  ruleset.originalRuleset = this;\n  ruleset =
ruleset.eval(new contexts.Eval(context, [this, frame].concat(mixinFrames)));\n  if (important) {\n    ruleset =
ruleset.makeImportant();\n  }\n  return ruleset;\n};\n\nDefinition.prototype.matchCondition = function(args,
context) {\n  if (this.condition && !this.condition.eval(\n    new contexts.Eval(context,\n  [this.evalParams(context, /* the parameter variables */\n    new contexts.Eval(context,
this.frames ? this.frames.concat(context.frames) : context.frames), args, [])\n    .concat(this.frames || []) //
the parent namespace/mixin frames\n    .concat(context.frames))) { // the current environment frames\n
return false;\n  }\n  return true;\n};\n\nDefinition.prototype.matchArgs = function(args, context) {\n  const
allArgsCnt = (args && args.length) || 0;\n  let len;\n  const optionalParameters = this.optionalParameters;\n  const requiredArgsCnt = !args ? 0 : args.reduce((count, p) => {\n    if (optionalParameters.indexOf(p.name) < 0)
{\n      return count + 1;\n    } else {\n      return count;\n    }\n  }, 0);\n\n  if (!this.variadic) {\n    if
(requiredArgsCnt < this.required) {\n      return false;\n    }\n    if (allArgsCnt > this.params.length) {\n
return false;\n    }\n  } else {\n    if (requiredArgsCnt < (this.required - 1)) {\n      return false;\n
    }\n  }\n\n  // check patterns\n  len = Math.min(requiredArgsCnt, this.arity);\n  for (let i = 0; i < len; i++)
{\n    if (!this.params[i].name && !this.params[i].variadic) {\n      if (args[i].value.eval(context).toCSS() !=
this.params[i].value.eval(context).toCSS()) {\n        return false;\n      }\n    }\n  }\n  return
true;\n};\n\nDefinition.prototype.type = 'MixinDefinition';\nDefinition.prototype.evalFirst = true;\nexport default
Definition;\n", "import Node from './node';\nimport Selector from './selector';\nimport MixinDefinition from './mixin-
definition';\nimport defaultFunc from './functions/default';\n\nconst MixinCall = function(elements, args, index,
currentFileInfo, important) {\n  this.selector = new Selector(elements);\n  this.arguments = args || [];\n  this._index = index;\n  this._fileInfo = currentFileInfo;\n  this.important = important;\n  this.allowRoot = true;\n  this.setParent(this.selector, this);\n};\n\nMixinCall.prototype
= new Node();\n\nMixinCall.prototype.accept = function(visitor) {\n  if (this.selector) {\n    this.selector =
visitor.visit(this.selector);\n  }\n  if (this.arguments.length) {\n    this.arguments =
visitor.visitArray(this.arguments);\n  }\n};\n\nMixinCall.prototype.eval = function(context) {\n  let mixins;\n  let
mixin;\n  let mixinPath;\n  const args = [];\n  let arg;\n  let argValue;\n  const rules = [];\n  let match =
false;\n  let i;\n  let m;\n  let f;\n  let isRecursive;\n  let isOneFound;\n  const candidates = [];\n  let
candidate;\n  const conditionResult = [];\n  let defaultResult;\n  const defFalseEitherCase = -1;\n  const
defNone = 0;\n  const defTrue = 1;\n  const defFalse = 2;\n  let count;\n  let originalRuleset;\n  let
noArgumentsFilter;\n\n  this.selector = this.selector.eval(context);\n\n  function calcDefGroup(mixin, mixinPath)
{\n    let f;\n    let p;\n    let
namespace;\n    for (f = 0; f < 2; f++) {\n      conditionResult[f] = true;\n      defaultFunc.value(f);\n
for (p = 0; p < mixinPath.length && conditionResult[f]; p++) {\n        namespace = mixinPath[p];\n
if (namespace.matchCondition) {\n          conditionResult[f] = conditionResult[f] &&
namespace.matchCondition(null, context);\n        }\n      }\n      if (mixin.matchCondition) {\n
conditionResult[f] = conditionResult[f] && mixin.matchCondition(args, context);\n      }\n    }\n    if
(conditionResult[0] || conditionResult[1]) {\n      if (conditionResult[0] != conditionResult[1]) {\n
return conditionResult[1] ?\n        defTrue : defFalse;\n      }\n    }\n    return defNone;\n  }\n\n  return defFalseEitherCase;\n  }\n\n  for (i = 0; i < this.arguments.length; i++) {\n    arg = this.arguments[i];\n
argValue
= arg.value.eval(context);\n    if (arg.expand && Array.isArray(argValue.value)) {\n      argValue =
argValue.value;\n      for (m = 0; m < argValue.length; m++) {\n        args.push({ value: argValue[m]});\n
      }\n    } else {\n      args.push({ name: arg.name, value: argValue});\n    }\n  }\n\n  noArgumentsFilter
= rule => rule.matchArgs(null, context);\n\n  for (i = 0; i < context.frames.length; i++) {\n    if ((mixins =

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context.frames[i].find(this.selector, null, noArgumentsFilter)).length > 0) {\n      isOneFound = true;\n      //
To make `default()` function independent of definition order we have two `subpasses` here.\n      // At first we
evaluate each guard *twice* (with `default() == true` and `default() == false`),\n      // and build candidate list
with corresponding flags. Then, when we know all possible matches,\n      // we make a final decision.\n\n
for (m = 0; m < mixins.length;
m++) {\n      mixin = mixins[m].rule;\n      mixinPath = mixins[m].path;\n      isRecursive =
false;\n      for (f = 0; f < context.frames.length; f++) {\n      if (!(mixin instanceof MixinDefinition))
&& mixin === (context.frames[f].originalRuleset || context.frames[f])) {\n      isRecursive = true;\n
break;\n      }\n      }\n      if (isRecursive) {\n      continue;\n      }\n\n
if (mixin.matchArgs(args, context)) {\n      candidate = { mixin, group: calcDefGroup(mixin,
mixinPath)};\n      if (candidate.group !== defFalseEitherCase) {\n
candidates.push(candidate);\n      }\n      match = true;\n      }\n      }\n\n
defaultFunc.reset();\n      count = [0, 0, 0];\n      for (m = 0; m < candidates.length;
m++) {\n      count[candidates[m].group]++;\n      }\n      if (count[defNone] > 0) {\n
defaultResult = defFalse;\n      } else {\n      defaultResult = defTrue;\n      if ((count[defTrue] +
count[defFalse]) > 1) {\n      throw { type: 'Runtime',\n      message: `Ambiguous use of
`default()` found when matching for ` ${this.format(args)} `,\n      index: this.getIndex(), filename:
this.fileInfo().filename };\n      }\n      }\n      for (m = 0; m < candidates.length; m++) {\n
candidate = candidates[m].group;\n      if ((candidate === defNone) || (candidate === defaultResult)) {\n
try {\n      mixin = candidates[m].mixin;\n      if (!(mixin instanceof MixinDefinition))
{\n      originalRuleset = mixin.originalRuleset || mixin;\n
mixin = new MixinDefinition("", [], mixin.rules, null, false, null, originalRuleset.visibilityInfo());\n
mixin.originalRuleset = originalRuleset;\n      }\n      const newRules =
mixin.evalCall(context, args, this.important).rules;\n      this._setVisibilityToReplacement(newRules);\n
Array.prototype.push.apply(rules, newRules);\n      } catch (e) {\n      throw {
message: e.message, index: this.getIndex(), filename: this.fileInfo().filename, stack: e.stack };\n
}\n      }\n      }\n      if (match) {\n      return rules;\n      }\n      }\n      }\n      if (isOneFound) {\n
throw { type: 'Runtime',\n      message: `No matching definition was found for ` ${this.format(args)} `,\n
index: this.getIndex(), filename: this.fileInfo().filename
};\n      } else {\n      throw { type: 'Name',\n      message: ` ${this.selector.toCSS().trim()} is undefined`,\n
index: this.getIndex(), filename: this.fileInfo().filename };\n
}\n      }\n\n
MixinCall.prototype._setVisibilityToReplacement = function(replacement) {\n      let i;\n      let rule;\n      if
(this.blocksVisibility()) {\n      for (i = 0; i < replacement.length; i++) {\n      rule = replacement[i];\n
rule.addVisibilityBlock();\n      }\n      }\n      }\n\n
MixinCall.prototype.format = function(args) {\n      return
`${this.selector.toCSS().trim()}(${args ? args.map(a => {\n      let argValue = ";\n      if (a.name) {\n
argValue += `${a.name}`;\n      }\n      if (a.value.toCSS) {\n      argValue += a.value.toCSS();\n      } else
{\n      argValue += "??";\n      }\n      return argValue;\n      }).join(', ') : '')`;\n      }\n      }\n\n
MixinCall.prototype.type =
'MixinCall';\n\n
export default MixinCall;\n\n
"import Node from
'./node';\nimport Color from './color';\nimport AtRule from './atrule';\nimport DetachedRuleset from './detached-
ruleset';\nimport Operation from './operation';\nimport Dimension from './dimension';\nimport Unit from
'./unit';\nimport Keyword from './keyword';\nimport Variable from './variable';\nimport Property from
'./property';\nimport Ruleset from './ruleset';\nimport Element from './element';\nimport Attribute from
'./attribute';\nimport Combinator from './combinator';\nimport Selector from './selector';\nimport Quoted from
'./quoted';\nimport Expression from './expression';\nimport Declaration from './declaration';\nimport Call from
'./call';\nimport URL from './url';\nimport Import from './import';\nimport Comment from './comment';\nimport
Anonymous from './anonymous';\nimport Value from './value';\nimport JavaScript from './javascript';\nimport
Assignment from './assignment';\nimport Condition from './condition';\nimport Paren from './paren';\nimport Media
from './media';\nimport

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UnicodeDescriptor from './unicode-descriptor';\nimport Negative from './negative';\nimport Extend from
 './extend';\nimport VariableCall from './variable-call';\nimport NamespaceValue from './namespace-value';\n\n//
 mixins\nimport MixinCall from './mixin-call';\nimport MixinDefinition from './mixin-definition';\n\nexport default
 {\n  Node, Color, AtRule, DetachedRuleset, Operation,\n  Dimension, Unit, Keyword, Variable, Property,\n  Ruleset, Element, Attribute, Combinator, Selector,\n  Quoted, Expression, Declaration, Call, URL, Import,\n  Comment, Anonymous, Value, JavaScript, Assignment,\n  Condition, Paren, Media, UnicodeDescriptor,
  Negative,\n  Extend, VariableCall, NamespaceValue,\n  mixin: {\n    Call: MixinCall,\n    Definition:
  MixinDefinition\n  }\n};", "export default {\n  error: function(msg) {\n    this._fireEvent('error', msg);\n  },\n  warn: function(msg) {\n    this._fireEvent('warn', msg);\n  },\n  info: function(msg) {\n
    this._fireEvent('info', msg);\n  },\n  debug: function(msg) {\n    this._fireEvent('debug', msg);\n  },\n  addListener: function(listener) {\n    this._listeners.push(listener);\n  },\n  removeListener: function(listener) {\n
    for (let i = 0; i < this._listeners.length; i++) {\n      if (this._listeners[i] === listener) {\n
        this._listeners.splice(i, 1);\n        return;\n      }\n    }\n  },\n  _fireEvent: function(type, msg) {\n
    for (let i = 0; i < this._listeners.length; i++) {\n      const logFunction = this._listeners[i][type];\n      if
    (logFunction) {\n        logFunction(msg);\n      }\n    }\n  },\n  _listeners: []\n};\n", "/*\n * @todo
Document why this abstraction exists, and the relationship between\n * environment, file managers, and plugin
manager\n *\nimport logger from './logger';\n\nclass environment {\n  constructor(externalEnvironment,
  fileManagers)
  {\n    this.fileManagers = fileManagers || [];\n    externalEnvironment = externalEnvironment || {};\n\n    const
  optionalFunctions = ['encodeBase64', 'mimeLookup', 'charsetLookup', 'getSourceMapGenerator'];\n    const
  requiredFunctions = [];\n    const functions = requiredFunctions.concat(optionalFunctions);\n\n    for (let i = 0; i
  < functions.length; i++) {\n      const propName = functions[i];\n      const environmentFunc =
  externalEnvironment[propName];\n      if (environmentFunc) {\n        this[propName] =
  environmentFunc.bind(externalEnvironment);\n      } else if (i < requiredFunctions.length) {\n
        this.warn(`missing required function in environment - ${propName}`);\n      }\n    }\n\n    getFileManager(filename, currentDirectory, options, environment, isSync) {\n\n      if (!filename) {\n
        logger.warn('getFileManager called with no filename.. Please report this issue.
        continuing.);\n      }\n      if (currentDirectory == null) {\n        logger.warn('getFileManager called with null
        directory.. Please report this issue. continuing.);\n      }\n      let fileManagers = this.fileManagers;\n      if
      (options.pluginManager) {\n        fileManagers =
      [].concat(fileManagers).concat(options.pluginManager.getFileManagers());\n      }\n      for (let i =
      fileManagers.length - 1; i >= 0; i--) {\n        const fileManager = fileManagers[i];\n        if (fileManager[isSync
      ? 'supportsSync' : 'supports'](filename, currentDirectory, options, environment)) {\n          return fileManager;\n
        }\n      }\n      return null;\n    }\n\n    addFileManager(fileManager) {\n      this.fileManagers.push(fileManager);\n    }\n\n    clearFileManagers() {\n      this.fileManagers = [];\n    }\n  }\n}\n\nexport default environment;\n", "class AbstractFileManager {\n  getPath(filename) {\n    let j =
  filename.lastIndexOf('?');\n\n    if (j > 0) {\n      filename = filename.slice(0, j);\n    }\n    j = filename.lastIndexOf('/');\n    if (j < 0)
  {\n      j = filename.lastIndexOf("\\\\");\n    }\n    if (j < 0) {\n      return ";\n    }\n    return
  filename.slice(0, j + 1);\n  }\n\n  tryAppendExtension(path, ext) {\n    return /(\\.([a-z]*$)|(?\\.*)$/.test(path) ?
  path : path + ext;\n  }\n\n  tryAppendLessExtension(path) {\n    return this.tryAppendExtension(path, '.less');\n  }\n\n  supportsSync() { return false; }\n\n  alwaysMakePathsAbsolute() { return false; }\n\n  isPathAbsolute(filename) {\n    return /^(?:[a-z-]+:|\\|\\\\|\\/#)/i.test(filename);\n  }\n  // TODO: pull out /
  replace?\n  join(basePath, laterPath) {\n    if (!basePath) {\n      return laterPath;\n    }\n    return
  basePath + laterPath;\n  }\n\n  pathDiff(url, baseUrl) {\n    // diff between two paths to create a relative path\n
    const urlParts = this.extractUrlParts(url);\n    const baseUrlParts = this.extractUrlParts(baseUrl);\n\n    let
  i;\n    let max;\n    let urlDirectories;\n    let baseUrlDirectories;\n    let diff = ";\n    if (urlParts.hostPart
  !== baseUrlParts.hostPart) {\n      return ";\n    }\n    max = Math.max(baseUrlParts.directories.length,

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urlParts.directories.length);
    for (i = 0; i < max; i++) {
        if (baseUrlParts.directories[i] !==
urlParts.directories[i]) { break; }
    }
    baseUrlDirectories = baseUrlParts.directories.slice(i);
urlDirectories = urlParts.directories.slice(i);
    for (i = 0; i < baseUrlDirectories.length - 1; i++) {
        diff += './';
    }
    for (i = 0; i < urlDirectories.length - 1; i++) {
        diff += `${urlDirectories[i]}`;
    }
    return diff;
};
// helper function, not part of API
extractUrlParts(url, baseUrl)
{
    // urlParts[1] = protocol://hostname/ OR ^
    // urlParts[2] = / if path relative to host baseUrl
    // urlParts[3] = directories
    // urlParts[4] = filename
    // urlParts[5] = parameters
    const
urlPartsRegex = /^(?:(?:[a-z-
]+)?\v{2}(?:[^\v{2}#*\v{2})?(([\v{2}]))?((?:[^\v{2}#*\v{2}])*(?:[^\v{2}#*\v{2}]*)?)(#[^\v{2}]*)?$/i;
    const urlParts =
url.match(urlPartsRegex);
    const returner = {};
    let rawDirectories = [];
    const directories = [];
    let i;
    let baseUrlParts;
    if (!urlParts) {
        throw new Error(`Could not parse sheet href -
`${url}``);
    }
    // Stylesheets in IE don't always return the full path
    if (baseUrl && (!urlParts[1] ||
urlParts[2])) {
        baseUrlParts = baseUrl.match(urlPartsRegex);
        if (!baseUrlParts) {
            throw
new Error(`Could not parse page url - `${baseUrl}``);
        }
        urlParts[1]
= urlParts[1] || baseUrlParts[1] || "";
        if (!urlParts[2]) {
            urlParts[3] = baseUrlParts[3] +
urlParts[3];
        }
        if (urlParts[3]) {
            rawDirectories = urlParts[3].replace(/\\/g,
'/').split('/');
            // collapse '..' and skip '.'
            for (i = 0; i < rawDirectories.length; i++) {
                if
(rawDirectories[i] === '..') {
                    directories.pop();
                }
                else if (rawDirectories[i] !==
'.') {
                    directories.push(rawDirectories[i]);
                }
            }
        }
        returner.hostPart = urlParts[1];
        returner.directories = directories;
        returner.rawPath = (urlParts[1] || "") +
rawDirectories.join('/');
        returner.path = (urlParts[1] || "") + directories.join('/');
        returner.filename =
urlParts[4];
        returner.fileUrl = returner.path + (urlParts[4] ||
"");
        returner.url = returner.fileUrl + (urlParts[5] || "");
        return returner;
    };
}
export default
AbstractFileManager;
", "import functionRegistry from './functions/function-registry';
import LessError from
'./less-error';
class AbstractPluginLoader {
    constructor() {
        // Implemented by Node.js plugin loader
        this.require = () => null;
    }
    evalPlugin(contents, context, imports, pluginOptions, fileInfo) {
        let
loader;
        let registry;
        let pluginObj;
        let localModule;
        let pluginManager;
        let
filename;
        let result;
        pluginManager = context.pluginManager;
        if (fileInfo) {
            if
(typeof fileInfo === 'string') {
                filename = fileInfo;
            }
            else {
                filename =
fileInfo.filename;
            }
        }
        const shortname = (new
this.less.FileManager()).extractUrlParts(filename).filename;
        if (filename) {
            pluginObj = pluginManager.get(filename);
            if (pluginObj) {
                result
= this.trySetOptions(pluginObj, filename, shortname, pluginOptions);
            }
            if (result) {
                return
result;
            }
            try {
                if (pluginObj.use) {
                    pluginObj.use.call(this.context, pluginObj);
                }
                catch (e) {
                    e.message = e.message || 'Error during @plugin call';
                    return new LessError(e, imports, filename);
                }
            }
            return pluginObj;
        }
        localModule = {
            exports: {},
            pluginManager,
            fileInfo,
        };
        registry = functionRegistry.create();
        const registerPlugin =
obj => {
            pluginObj = obj;
        };
        try {
            loader =
new Function('module', 'require', 'registerPlugin', 'functions', 'tree', 'less', 'fileInfo', contents);
            loader(localModule, this.require(filename), registerPlugin, registry, this.less.tree, this.less, fileInfo);
        }
        catch (e) {
            return new LessError(e, imports, filename);
        }
        if (!pluginObj) {
            pluginObj
= localModule.exports;
        }
        pluginObj = this.validatePlugin(pluginObj, filename, shortname);
        if
(pluginObj instanceof LessError) {
            return pluginObj;
        }
        if (pluginObj) {
            pluginObj.imports = imports;
            pluginObj.filename = filename;
            // For < 3.x (or unspecified
minVersion) - setOptions() before install()
            if (!pluginObj.minVersion || this.compareVersion('3.0.0',
pluginObj.minVersion) < 0) {
                result = this.trySetOptions(pluginObj, filename, shortname,
pluginOptions);
            }
            if (result)

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    {
      return result;
    }
  }
}

// Run on first load
pluginManager.addPlugin(pluginObj, fileInfo.filename, registry);
pluginObj.functions =
registry.getLocalFunctions();
// Need to call setOptions again because the pluginObj might have
functions
result = this.trySetOptions(pluginObj, filename, shortname, pluginOptions);
if (result)
{
  return result;
}

// Run every @plugin call
try {
  if
(pluginObj.use) {
    pluginObj.use.call(this.context, pluginObj);
  }
} catch
(e) {
  e.message = e.message || 'Error during @plugin call';
  return new LessError(e, imports,
filename);
}
else {
  return new LessError({ message: 'Not a valid plugin' },
imports, filename);
}
return pluginObj;
}

trySetOptions(plugin, filename, name, options) {
  if (options &&
!plugin.setOptions) {
    return new LessError({
      message: `Options have been provided but the
plugin ${name} does not support any options.`
    });
  }
  try {
    plugin.setOptions &&
plugin.setOptions(options);
  } catch (e) {
    return new LessError(e);
  }
}

validatePlugin(plugin, filename, name) {
  if (plugin) {
    // support plugins being a function
    // so that the plugin can be more usable programmatically
    if (typeof plugin === 'function') {
      plugin = new plugin();
    }
    if (plugin.minVersion) {
      if
(this.compareVersion(plugin.minVersion, this.less.version) < 0) {
        return new LessError({
          message: `Plugin ${name} requires
version ${this.versionToString(plugin.minVersion)}
`);
      }
    }
  }
  return null;
}

compareVersion(aVersion, bVersion) {
  if (typeof aVersion ===
'string') {
    aVersion = aVersion.match(/^(\\d+\\.?(\\d+)?\\.?(\\d+)?);
    aVersion.shift();
  }
  for (let i = 0; i < aVersion.length; i++) {
    if (aVersion[i] !== bVersion[i]) {
      return
parseInt(aVersion[i]) > parseInt(bVersion[i]) ? -1 : 1;
    }
  }
  return 0;
}

versionToString(version) {
  let versionString = "";
  for (let i = 0; i < version.length; i++) {
    versionString += (versionString ? '.' : '') + version[i];
  }
  return versionString;
}

printUsage(plugins) {
  for (let i = 0; i < plugins.length; i++) {
    const plugin = plugins[i];
    if
(plugin.printUsage)
{
      plugin.printUsage();
    }
  }
}

export default AbstractPluginLoader;

", "import
tree from './tree';
const _visitArgs = { visitDeeper: true };
let _hasIndexed = false;

function _noop(node) {
  return node;
}

function indexNodeTypes(parent, ticker) {
  // add .typeIndex to tree node types for lookup
table
let key;
let child;
for (key in parent) {
  /* eslint guard-for-in: 0 */
  child =
parent[key];
  switch (typeof child) {
    case 'function':
      // ignore bound functions directly on
tree which do not have a prototype
      // or aren't nodes
      if (child.prototype &&
child.prototype.type) {
        child.prototype.typeIndex = ticker++;
      }
      break;
    case 'object':
      ticker = indexNodeTypes(child, ticker);
      break;
  }
}
}

return ticker;
}

class Visitor {
  constructor(implementation) {
    this._implementation =
implementation;
    this._visitInCache = {};
    this._visitOutCache = {};
  }

  if (!_hasIndexed) {
    indexNodeTypes(tree, 1);
    _hasIndexed = true;
  }

  visit(node) {
    if (!node) {
      return node;
    }
  }

  const nodeTypeIndex = node.typeIndex;
  if (!nodeTypeIndex) {
    // MixinCall args aren't a node type?
    if (node.value && node.value.typeIndex) {
      this.visit(node.value);
    }
    return node;
  }

  const impl = this._implementation;
  let func = this._visitInCache[nodeTypeIndex];
  let funcOut = this._visitOutCache[nodeTypeIndex];
  const visitArgs = _visitArgs;
  let fnName;
  visitArgs.visitDeeper = true;
  if (!func) {
    fnName = `visit${node.type}`;
    func = impl[fnName] || _noop;
    funcOut = impl[`${fnName}Out`] || _noop;
    this._visitInCache[nodeTypeIndex] = func;
    this._visitOutCache[nodeTypeIndex] = funcOut;
  }

  if (func !== _noop) {
    const newNode = func.call(impl, node, visitArgs);
    if (node &&
impl.isReplacing) {
      node = newNode;
    }
  }

  if (visitArgs.visitDeeper && node) {

```

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    if (node.length) {\n        for (var i = 0, cnt = node.length; i < cnt; i++) {\n            if (node[i].accept)\n            {\n                node[i].accept(this);\n            }\n        } else if (node.accept) {\n            node.accept(this);\n        }\n    }\n    if (funcOut != _noop) {\n        funcOut.call(impl, node);\n    }\n    return node;\n}\n\nvisitArray(nodes, nonReplacing) {\n    if (!nodes) {\n        return nodes;\n    }\n    const cnt = nodes.length;\n    let i;\n    // Non-replacing\n    if (nonReplacing || !this._implementation.isReplacing) {\n        for (i = 0; i < cnt; i++) {\n            this.visit(nodes[i]);\n        }\n        return nodes;\n    }\n    // Replacing\n    const out = [];\n    for (i = 0; i < cnt; i++) {\n        const evald = this.visit(nodes[i]);\n        if (evald === undefined) { continue; }\n        if (!evald.splice) {\n            out.push(evald);\n        } else if (evald.length) {\n            this.flatten(evald, out);\n        }\n    }\n    return out;\n}\n\nflatten(arr, out) {\n    if (!out) {\n        out = [];\n    }\n    let cnt;\n    let i;\n    let item;\n    let nestedCnt;\n    let j;\n    let nestedItem;\n    for (i = 0, cnt = arr.length; i < cnt; i++) {\n        item = arr[i];\n        if (item === undefined) {\n            continue;\n        }\n        if (!item.splice) {\n            out.push(item);\n            continue;\n        }\n        for (j = 0, nestedCnt = item.length; j < nestedCnt; j++) {\n            nestedItem = item[j];\n            if (nestedItem === undefined) {\n                continue;\n            }\n            if (!nestedItem.splice) {\n                out.push(nestedItem);\n            } else if (nestedItem.length) {\n                this.flatten(nestedItem, out);\n            }\n        }\n    }\n    return out;\n}\n\nexport default Visitor;\n\n", "class ImportSequencer {\n    constructor(onSequencerEmpty) {\n        this.imports = [];\n        this.variableImports = [];\n        this._onSequencerEmpty = onSequencerEmpty;\n        this._currentDepth = 0;\n    }\n\n    addImport(callback) {\n        const importSequencer = this;\n        const importItem = {\n            callback,\n            args: null,\n            isReady: false\n        }; \n        this.imports.push(importItem);\n        return function(...args) {\n            importItem.args = Array.prototype.slice.call(args, 0);\n            importItem.isReady = true;\n            importSequencer.tryRun();\n        }; \n    }\n\n    addVariableImport(callback) {\n        this.variableImports.push(callback);\n    }\n\n    tryRun() {\n        this._currentDepth++;\n        try {\n            while (true) {\n                while (this.imports.length > 0) {\n                    const importItem = this.imports[0];\n                    if (!importItem.isReady) {\n                        return;\n                    }\n                    this.imports = this.imports.slice(1);\n                    importItem.callback.apply(null, importItem.args);\n                }\n                if (this.variableImports.length === 0) {\n                    break;\n                }\n                const variableImport = this.variableImports[0];\n                this.variableImports = this.variableImports.slice(1);\n                variableImport();\n            }\n        } finally {\n            this._currentDepth--;\n        }\n        if (this._currentDepth === 0 && this._onSequencerEmpty) {\n            this._onSequencerEmpty();\n        }\n    }\n}\n\nexport default ImportSequencer;\n\n", "import contexts from './contexts';\nimport Visitor from './visitor';\nimport ImportSequencer from './import-sequencer';\nimport * as utils from './utils';\n\nconst ImportVisitor = function(importer, finish) {\n    this._visitor = new Visitor(this);\n    this._importer = importer;\n    this._finish = finish;\n    this.context = new contexts.Eval();\n    this.importCount = 0;\n    this.onceFileDetectionMap = {};\n    this.recursionDetector = {};\n    this._sequencer = new ImportSequencer(this._onSequencerEmpty.bind(this));\n}\n\nImportVisitor.prototype = {\n    isReplacing: false,\n    run:\n\n    function (root) {\n        try {\n            // process the contents\n            this._visitor.visit(root);\n        } catch (e) {\n            this.error = e;\n        }\n        this.isFinished = true;\n        this._sequencer.tryRun();\n    },\n\n    _onSequencerEmpty: function() {\n        if (!this.isFinished) {\n            return;\n        }\n        this._finish(this.error);\n    },\n\n    visitImport: function (importNode, visitArgs) {\n        const inlineCSS = importNode.options.inline;\n        if (!importNode.css || inlineCSS) {\n            const context = new contexts.Eval(this.context, utils.copyArray(this.context.frames));\n            const importParent = context.frames[0];\n            this.importCount++;\n            if (importNode.isVariableImport()) {\n                this._sequencer.addVariableImport(this.processImportNode.bind(this, importNode, context, importParent));\n            } else {\n                this.processImportNode(importNode, context,\n
```

```

importParent);
    }
    }
    visitArgs.visitDeeper = false;
  },
  processImportNode:
function(importNode, context, importParent) {
  let evaldImportNode;
  const inlineCSS =
importNode.options.inline;
  try {
    evaldImportNode = importNode.evalForImport(context);
  }
  catch (e) {
    if (!e.filename) { e.index = importNode.getIndex(); e.filename = importNode.fileInfo().filename;
}
    // attempt to eval properly and treat as css
    importNode.css = true;
    // if that fails, this
error will be thrown
    importNode.error = e;
  }
  if (evaldImportNode &&
(!evaldImportNode.css || inlineCSS)) {
    if (evaldImportNode.options.multiple) {
context.importMultiple = true;
    }
    // try appending if we haven't determined if it is css or not
    const tryAppendLessExtension = evaldImportNode.css === undefined;
    for (let i = 0; i < importParent.rules.length; i++) {
      if (importParent.rules[i] === importNode) {
importParent.rules[i] = evaldImportNode;
        break;
      }
    }
    const
onImported = this.onImported.bind(this, evaldImportNode, context);
    const sequencedOnImported =
this._sequencer.addImport(onImported);
    this._importer.push(evaldImportNode.getPath(),
tryAppendLessExtension, evaldImportNode.fileInfo(),
evaldImportNode.options,
sequencedOnImported);
  } else {
    this.importCount--;
    if (this.isFinished) {
this._sequencer.tryRun();
    }
  }
  },
  onImported: function (importNode, context, e, root,
importedAtRoot, fullPath) {
    if (e) {
      if (!e.filename) {
e.index = importNode.getIndex();
e.filename = importNode.fileInfo().filename;
      }
      this.error = e;
    }
    const importVisitor = this;
    const inlineCSS =
importNode.options.inline;
    const isPlugin = importNode.options.isPlugin;
    const isOptional =
importNode.options.optional;
    const duplicateImport = importedAtRoot || fullPath in
importVisitor.recursionDetector;
    if (!context.importMultiple) {
      if (duplicateImport) {
importNode.skip = true;
      } else {
importNode.skip = () => {
        if (fullPath in
importVisitor.onceFileDetectionMap) {
          return true;
        }
importVisitor.onceFileDetectionMap[fullPath] = true;
        return false;
      };
    }
    if (!fullPath && isOptional) {
importNode.skip = true;
    }
    if (root) {
importNode.root = root;
importNode.importedFilename
= fullPath;
    if (!inlineCSS && !isPlugin && (context.importMultiple || !duplicateImport)) {
importVisitor.recursionDetector[fullPath] = true;
    const oldContext = this.context;
    this.context = context;
    try {
      this._visitor.visit(root);
    } catch (e) {
this.error = e;
    }
    this.context = oldContext;
  }
}
importVisitor.importCount--;
    if (importVisitor.isFinished) {
importVisitor._sequencer.tryRun();
  }
},
  visitDeclaration: function (declNode, visitArgs) {
    if (declNode.value.type ===
'DetachedRuleset') {
      this.context.frames.unshift(declNode);
    } else {
      visitArgs.visitDeeper =
false;
    }
  },
  visitDeclarationOut: function(declNode) {
    if (declNode.value.type ===
'DetachedRuleset') {
      this.context.frames.shift();
    }
  },
  visitAtRule: function (atRuleNode,
visitArgs) {
    this.context.frames.unshift(atRuleNode);
  },
  visitAtRuleOut: function (atRuleNode) {
    this.context.frames.shift();
  },
  visitMixinDefinition: function (mixinDefinitionNode, visitArgs) {
    this.context.frames.unshift(mixinDefinitionNode);
  },
  visitMixinDefinitionOut: function
(mixinDefinitionNode) {
    this.context.frames.shift();
  },
  visitRuleset: function (rulesetNode, visitArgs) {
    this.context.frames.unshift(rulesetNode);
  },
  visitRulesetOut: function (rulesetNode) {
    this.context.frames.shift();
  },
  visitMedia: function (mediaNode, visitArgs) {
    this.context.frames.unshift(mediaNode.rules[0]);
  },
  visitMediaOut: function (mediaNode) {
    this.context.frames.shift();
  }
};
export default ImportVisitor;
",
"class SetTreeVisibilityVisitor
{
  constructor(visible) {
    this.visible = visible;
  }
  run(root) {
    this.visit(root);
  }
  visitArray(nodes) {
    if (!nodes) {
      return nodes;
    }
    const cnt = nodes.length;
    let i;
    for (i = 0; i < cnt; i++) {
      this.visit(nodes[i]);
    }
    return nodes;
  }
  visit(node) {
    if (!node) {
      return node;
    }
    if (node.constructor === Array) {
      return

```

```

this.visitArray(node);\n    }\n    if (!node.blocksVisibility || node.blocksVisibility()) {\n        return node;\n    }\n    if (this.visible) {\n        node.ensureVisibility();\n    } else {\n        node.ensureInvisibility();\n    }\n    node.accept(this);\n    return node;\n  }\n}\n\nexport default SetTreeVisibilityVisitor;","import tree\nfrom './tree';\nimport Visitor from './visitor';\nimport logger from './logger';\nimport\n* as utils from './utils';\n\n/* jshint loopfunc:true */\n\nclass ExtendFinderVisitor {\n  constructor() {\n    this._visitor = new Visitor(this);\n    this.contexts = [];\n    this.allExtendsStack = [[]];\n  }\n\n  run(root) {\n    root = this._visitor.visit(root);\n    root.allExtends = this.allExtendsStack[0];\n    return root;\n  }\n\n  visitDeclaration(declNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitMixinDefinition(mixinDefinitionNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitRuleset(rulesetNode, visitArgs) {\n    if (rulesetNode.root) {\n      return;\n    }\n\n    let i;\n    let\n    j;\n    let extend;\n    const allSelectorsExtendList = [];\n    let extendList;\n\n    // get &:extend(.a); rules\n    which apply to all selectors in this ruleset\n    const rules = rulesetNode.rules;\n    const ruleCnt = rules ?\n    rules.length\n    : 0;\n    for (i = 0; i < ruleCnt; i++) {\n      if (rulesetNode.rules[i] instanceof tree.Extend) {\n        allSelectorsExtendList.push(rules[i]);\n        rulesetNode.extendOnEveryPath = true;\n      }\n    }\n\n    // now find every selector and apply the extends that apply to all extends\n    // and the ones which apply to an\n    individual extend\n    const paths = rulesetNode.paths;\n    for (i = 0; i < paths.length; i++) {\n      const\n      selectorPath = paths[i];\n      const selector = selectorPath[selectorPath.length - 1];\n      const selExtendList\n      = selector.extendList;\n      extendList = selExtendList ?\n      utils.copyArray(selExtendList).concat(allSelectorsExtendList)\n      : allSelectorsExtendList;\n      if\n      (extendList) {\n        extendList = extendList.map(allSelectorsExtend => allSelectorsExtend.clone());\n      }\n      for (j = 0; j < extendList.length; j++)\n      {\n        this.foundExtends = true;\n        extend = extendList[j];\n        extend.findSelfSelectors(selectorPath);\n        extend.ruleset = rulesetNode;\n        if (j === 0) {\n          extend.firstExtendOnThisSelectorPath = true;\n        }\n        this.allExtendsStack[this.allExtendsStack.length -\n        1].push(extend);\n      }\n    }\n    this.contexts.push(rulesetNode.selectors);\n  }\n\n  visitRulesetOut(rulesetNode) {\n    if (!rulesetNode.root) {\n      this.contexts.length = this.contexts.length -\n      1;\n    }\n  }\n\n  visitMedia(mediaNode, visitArgs) {\n    mediaNode.allExtends = [];\n    this.allExtendsStack.push(mediaNode.allExtends);\n  }\n\n  visitMediaOut(mediaNode) {\n    this.allExtendsStack.length = this.allExtendsStack.length - 1;\n  }\n\n  visitAtRule(atRuleNode, visitArgs) {\n    atRuleNode.allExtends = [];\n    this.allExtendsStack.push(atRuleNode.allExtends);\n  }\n\n  visitAtRuleOut(atRuleNode) {\n    this.allExtendsStack.length = this.allExtendsStack.length - 1;\n  }\n}\n\n\nclass ProcessExtendsVisitor {\n  constructor() {\n    this._visitor = new Visitor(this);\n  }\n\n  run(root) {\n    const extendFinder = new ExtendFinderVisitor();\n    this.extendIndices = {};\n    extendFinder.run(root);\n    if (!extendFinder.foundExtends) {\n      return root;\n    }\n    root.allExtends =\n    root.allExtends.concat(this.doExtendChaining(root.allExtends, root.allExtends));\n    this.allExtendsStack =\n    [root.allExtends];\n    const newRoot = this._visitor.visit(root);\n    this.checkExtendsForNonMatched(root.allExtends);\n    return newRoot;\n  }\n\n  checkExtendsForNonMatched(extendList) {\n    const indices = this.extendIndices;\n    extendList.filter(extend\n    => !extend.hasFoundMatches && extend.parent_ids.length == 1).forEach(extend => {\n      let selector =\n      '_unknown';\n      try {\n        selector = extend.selector.toCSS({});\n      }\n      catch (_) {}\n      if (!indices[`${extend.index}\n      ${selector}`]) {\n        indices[`${extend.index} ${selector}`] = true;\n        logger.warn(`extend\n      '${selector}' has no matches`);\n      }\n    });\n  }\n\n  doExtendChaining(extendsList, extendsListTarget,\n  iterationCount) {\n    // chaining is different from normal extension.. if we extend an extend then we are\n    not just copying, altering\n    // and pasting the selector we would do normally, but we are also adding an extend\n    with the same target selector\n    // this means this new extend can then go and alter other extends\n    // this method deals with all the chaining work - without it, extend is flat and doesn't work on other extend selectors\n  }

```

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// this is also the most expensive.. and a match on one selector can cause an extension of a selector we had
already\n    // processed
if we look at each selector at a time, as is done in visitRuleset\n    let extendIndex;\n    let
targetExtendIndex;\n    let matches;\n    const extendsToAdd = [];\n    let newSelector;\n    const
extendVisitor = this;\n    let selectorPath;\n    let extend;\n    let targetExtend;\n    let newExtend;\n\n
iterationCount = iterationCount || 0;\n    // loop through comparing every extend with every target extend.\n
// a target extend is the one on the ruleset we are looking at copy/edit/pasting in place\n    // e.g. .a:extend(.b) {}
and .b:extend(.c) {} then the first extend extends the second one\n    // and the second is the target.\n    // the
separation into two lists allows us to process a subset of chains with a bigger set, as is the\n    // case when
processing media queries\n    for (extendIndex = 0; extendIndex < extendsList.length; extendIndex++) {\n
for (targetExtendIndex = 0;
targetExtendIndex < extendsListTarget.length; targetExtendIndex++) {\n        extend =
extendsList[extendIndex];\n        targetExtend = extendsListTarget[targetExtendIndex];\n\n        // look for
circular references\n        if ( extend.parent_ids.indexOf( targetExtend.object_id ) >= 0 ) { continue; }\n\n
// find a match in the target extends self selector (the bit before :extend)\n        selectorPath =
[targetExtend.selfSelectors[0]];\n        matches = extendVisitor.findMatch(extend, selectorPath);\n\n        if
(matches.length) {\n            extend.hasFoundMatches = true;\n\n            // we found a match, so for each
self selector..\n            extend.selfSelectors.forEach(selfSelector => {\n                const info =
targetExtend.visibilityInfo();\n                // process the extend as usual\n                newSelector =
extendVisitor.extendSelector(matches,
selectorPath, selfSelector, extend.isVisible());\n\n                // but now we create a new extend from it\n
                newExtend = new(tree.Extend)(targetExtend.selector, targetExtend.option, 0, targetExtend.fileInfo(), info);\n
                newExtend.selfSelectors = newSelector;\n\n                // add the extend onto the list of extends for
that selector\n                newSelector[newSelector.length - 1].extendList = [newExtend];\n\n                //
record that we need to add it.\n                extendsToAdd.push(newExtend);\n\n                newExtend.ruleset
= targetExtend.ruleset;\n\n                // remember its parents for circular references\n
newExtend.parent_ids = newExtend.parent_ids.concat(targetExtend.parent_ids, extend.parent_ids);\n\n
// only process the selector once.. if we have :extend(.a,.b) then multiple\n
// extends will look at the same selector path, so when extending\n\n                // we know that any others
will be duplicates in terms of what is added to the css\n                if
(targetExtend.firstExtendOnThisSelectorPath) {\n                    newExtend.firstExtendOnThisSelectorPath =
true;\n                    targetExtend.ruleset.paths.push(newSelector);\n                }\n            });\n
}\n        }\n        }\n\n        if (extendsToAdd.length) {\n            // try to detect circular references to stop a stack
overflow.\n            // may no longer be needed.\n            this.extendChainCount++;\n            if (iterationCount > 100)
{\n                let selectorOne = '{unable to calculate}';\n                let selectorTwo = '{unable to calculate}';\n
try {\n                    selectorOne = extendsToAdd[0].selfSelectors[0].toCSS();\n                    selectorTwo =
extendsToAdd[0].selector.toCSS();\n                }\n                catch (e) {\n                    throw { message: `extend circular reference detected. One of the
circular extends is currently:${selectorOne}:extend(${selectorTwo})` };\n                }\n\n                // now process the new
extends on the existing rules so that we can handle a extending b extending c extending\n                // d extending e...\n
return extendsToAdd.concat(extendVisitor.doExtendChaining(extendsToAdd, extendsListTarget,
iterationCount + 1));\n        } else {\n            return extendsToAdd;\n        }\n    }\n\n    visitDeclaration(ruleNode,
visitArgs) {\n        visitArgs.visitDeeper = false;\n    }\n\n    visitMixinDefinition(mixinDefinitionNode, visitArgs)
{\n        visitArgs.visitDeeper = false;\n    }\n\n    visitSelector(selectorNode, visitArgs) {\n
visitArgs.visitDeeper = false;\n    }\n\n    visitRuleset(rulesetNode, visitArgs) {\n        if (rulesetNode.root) {\n
return;\n        }\n        let matches;\n        let pathIndex;\n        let extendIndex;\n        const allExtends =
this.allExtendsStack[this.allExtendsStack.length - 1];\n        const selectorsToAdd = [];\n        const extendVisitor =

```

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this;\n    let selectorPath;\n\n    // look at each selector path in the ruleset, find any extend matches and then
copy, find and replace\n\n    for (extendIndex = 0; extendIndex < allExtends.length; extendIndex++) {\n
for (pathIndex = 0; pathIndex < rulesetNode.paths.length; pathIndex++) {\n        selectorPath =
rulesetNode.paths[pathIndex];\n\n        // extending extends happens initially, before the main pass\n        if
(rulesetNode.extendOnEveryPath) { continue; }\n        const extendList = selectorPath[selectorPath.length -
1].extendList;\n        if (extendList && extendList.length) { continue; }\n\n        matches =
this.findMatch(allExtends[extendIndex], selectorPath);\n\n        if (matches.length) {\n            allExtends[extendIndex].hasFoundMatches = true;\n\n            allExtends[extendIndex].selfSelectors.forEach(selfSelector => {\n                let extendedSelectors;\n                extendedSelectors = extendVisitor.extendSelector(matches, selectorPath, selfSelector,
allExtends[extendIndex].isVisible());\n                selectorsToAdd.push(extendedSelectors);\n            });\n        }\n    }\n\n    rulesetNode.paths = rulesetNode.paths.concat(selectorsToAdd);\n\n    }\n\n    findMatch(extend, haystackSelectorPath) {\n        /\n        // look through the haystack selector path to try and find
the needle - extend.selector\n        // returns an array of selector matches that can then be replaced\n        /\n        let
haystackSelectorIndex;\n        let haystackSelector;\n        let haystackElementIndex;\n        let
haystackElement;\n        let targetCombinator;\n\n        let i;\n        const extendVisitor = this;\n        const needleElements = extend.selector.elements;\n        const
potentialMatches = [];\n        let potentialMatch;\n        const matches = [];\n\n        // loop through the haystack
elements\n        for (haystackSelectorIndex = 0; haystackSelectorIndex < haystackSelectorPath.length;\n
haystackSelectorIndex++) {\n            haystackSelector = haystackSelectorPath[haystackSelectorIndex];\n\n            for (haystackElementIndex = 0; haystackElementIndex < haystackSelector.elements.length;\n
haystackElementIndex++) {\n                haystackElement =
haystackSelector.elements[haystackElementIndex];\n\n                // if we allow elements before our match we can
add a potential match every time. otherwise only at the first element.\n                if (extend.allowBefore ||
(haystackSelectorIndex === 0 && haystackElementIndex === 0)) {\n                    potentialMatches.push({ pathIndex: haystackSelectorIndex,\n
index: haystackElementIndex, matched: 0,\n\n                    initialCombinator: haystackElement.combinator});\n                }\n\n                for (i = 0; i < potentialMatches.length; i++) {\n                    potentialMatch =
potentialMatches[i];\n\n                    // selectors add \" \" onto the first element. When we use & it joins the selectors
together, but if we don't\n                    // then each selector in haystackSelectorPath has a space before it added in the
toCSS phase. so we need to\n                    // work out what the resulting combinator will be\n                    targetCombinator = haystackElement.combinator.value;\n                    if (targetCombinator === \" &&\n
haystackElementIndex === 0) {\n                        targetCombinator = ' '\n                    }\n\n                    // if we
don't match, null our match to indicate failure\n                    if
(!extendVisitor.isElementValuesEqual(needleElements[potentialMatch.matched].value,\n
haystackElement.value) ||\n                    (potentialMatch.matched > 0 &&\n
needleElements[potentialMatch.matched].combinator.value !== targetCombinator)) {\n                        potentialMatch = null;\n                    } else {\n                        potentialMatch.matched++;\n                    }\n\n                    // if we are still valid and have finished, test whether we have elements after and whether these are allowed\n                    if (potentialMatch) {\n                        potentialMatch.finished = potentialMatch.matched ===
needleElements.length;\n                        if (potentialMatch.finished &&\n                            (!extend.allowAfter\n
&&\n                            (haystackElementIndex + 1 < haystackSelector.elements.length || haystackSelectorIndex\n
+ 1 < haystackSelectorPath.length))) {\n                            potentialMatch = null;\n                        }\n                    }\n\n                    // if null we remove, if not, we are still valid, so either push as a valid match or continue\n                    if
(potentialMatch) {\n                        if (potentialMatch.finished) {\n                            potentialMatch.length =
needleElements.length;\n                            potentialMatch.endPathIndex = haystackSelectorIndex;\n                            potentialMatch.endPathElementIndex = haystackElementIndex + 1; // index after end of match\n

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potentialMatches.length = 0; // we don't allow matches to overlap, so start matching again\n
matches.push(potentialMatch);\n          }\n          } else {\n          potentialMatches.splice(i,\n
1);\n          i--;\n          }\n          }\n          }\n          }\n          return matches;\n          }\n\n
isElementValuesEqual(elementValue1, elementValue2) {\n    if (typeof elementValue1 === 'string'\n
|| typeof elementValue2 === 'string') {\n        return elementValue1 === elementValue2;\n    }\n    if\n
(elementValue1 instanceof tree.Attribute) {\n        if (elementValue1.op !== elementValue2.op ||\n
elementValue1.key !== elementValue2.key) {\n            return false;\n        }\n        if (!(elementValue1.value ||\n
!elementValue2.value) {\n            if (elementValue1.value || elementValue2.value) {\n                return false;\n
            }\n            return true;\n        }\n        elementValue1 = elementValue1.value.value ||\n
elementValue1.value;\n        elementValue2 = elementValue2.value.value || elementValue2.value;\n        return\n
elementValue1 === elementValue2;\n    }\n    elementValue1 = elementValue1.value;\n    elementValue2 =\n
elementValue2.value;\n    if (elementValue1 instanceof tree.Selector) {\n        if (!(elementValue2 instanceof\n
tree.Selector) || elementValue1.elements.length\n
!=== elementValue2.elements.length) {\n            return false;\n        }\n        for (let i = 0; i <\n
elementValue1.elements.length; i++) {\n            if (elementValue1.elements[i].combinator.value !==\n
elementValue2.elements[i].combinator.value) {\n                if (i !== 0 ||\n
(elementValue1.elements[i].combinator.value || ' ') !== (elementValue2.elements[i].combinator.value || ' ')) {\n\n
                return false;\n            }\n            }\n            if\n
(!this.isElementValuesEqual(elementValue1.elements[i].value, elementValue2.elements[i].value)) {\n\n
            return false;\n        }\n        }\n        return true;\n    }\n    return false;\n }\n\n
extendSelector(matches, selectorPath, replacementSelector, isVisible) {\n    // for a set of matches, replace each\n
match with the replacement selector\n    let currentSelectorPathIndex = 0;\n    let\n
currentSelectorPathElementIndex\n
= 0;\n    let path = [];\n    let matchIndex;\n    let selector;\n    let firstElement;\n    let match;\n    let\n
newElements;\n    for (matchIndex = 0; matchIndex < matches.length; matchIndex++) {\n        match =\n
matches[matchIndex];\n        selector = selectorPath[match.pathIndex];\n        firstElement = new\n
tree.Element(\n        match.initialCombinator,\n        replacementSelector.elements[0].value,\n
replacementSelector.elements[0].isVariable,\n        replacementSelector.elements[0].getIndex(),\n
replacementSelector.elements[0].fileInfo()\n        );\n        if (match.pathIndex > currentSelectorPathIndex\n
&& currentSelectorPathElementIndex > 0) {\n            path[path.length - 1].elements = path[path.length - 1]\n
.elements.concat(selectorPath[currentSelectorPathIndex].elements.slice(currentSelectorPathElementIndex));\n\n
            currentSelectorPathElementIndex\n
= 0;\n            currentSelectorPathIndex++;\n        }\n        newElements = selector.elements\n
.slice(currentSelectorPathElementIndex, match.index)\n        .concat([firstElement])\n
.concat(replacementSelector.elements.slice(1));\n        if (currentSelectorPathIndex === match.pathIndex &&\n
matchIndex > 0) {\n            path[path.length - 1].elements =\n            path[path.length -\n
1].elements.concat(newElements);\n        } else {\n            path =\n
path.concat(selectorPath.slice(currentSelectorPathIndex, match.pathIndex));\n            path.push(new\n
tree.Selector(\n            newElements\n            ));\n        }\n        currentSelectorPathIndex =\n
match.endPathIndex;\n        currentSelectorPathElementIndex = match.endPathElementIndex;\n        if\n
(currentSelectorPathElementIndex >= selectorPath[currentSelectorPathIndex].elements.length)\n
{\n            currentSelectorPathElementIndex = 0;\n            currentSelectorPathIndex++;\n        }\n        }\n\n
        if (currentSelectorPathIndex < selectorPath.length && currentSelectorPathElementIndex > 0) {\n\n
        path[path.length - 1].elements = path[path.length - 1]\n
.elements.concat(selectorPath[currentSelectorPathIndex].elements.slice(currentSelectorPathElementIndex));\n\n
        currentSelectorPathIndex++;\n        }\n        path = path.concat(selectorPath.slice(currentSelectorPathIndex,\n
selectorPath.length));\n        path = path.map(currentValue => {\n            // we can re-use elements here, because the\n
visibility property matters only for selectors\n            const derived =

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currentValue.createDerived(currentValue.elements);\n        if (isVisible) {\n            derived.ensureVisibility();\n        } else {\n            derived.ensureInvisibility();\n        }\n        return derived;\n    });\n    return path;\n  }\n\n  visitMedia(mediaNode, visitArgs) {\n    let newAllExtends =\n    mediaNode.allExtends.concat(this.allExtendsStack[this.allExtendsStack.length - 1]);\n    newAllExtends =\n    newAllExtends.concat(this.doExtendChaining(newAllExtends, mediaNode.allExtends));\n    this.allExtendsStack.push(newAllExtends);\n  }\n\n  visitMediaOut(mediaNode) {\n    const lastIndex =\n    this.allExtendsStack.length - 1;\n    this.allExtendsStack.length = lastIndex;\n  }\n\n  visitAtRule(atRuleNode,\n  visitArgs) {\n    let newAllExtends =\n    atRuleNode.allExtends.concat(this.allExtendsStack[this.allExtendsStack.length - 1]);\n    newAllExtends =\n    newAllExtends.concat(this.doExtendChaining(newAllExtends, atRuleNode.allExtends));\n    this.allExtendsStack.push(newAllExtends);\n  }\n\n  visitAtRuleOut(atRuleNode) {\n    const lastIndex =\n    this.allExtendsStack.length - 1;\n    this.allExtendsStack.length = lastIndex;\n  }\n}\n\nexport default\n  ProcessExtendsVisitor;\n", "import Visitor from './visitor';\n\n\nclass JoinSelectorVisitor {\n  constructor() {\n    this.contexts = [];\n    this._visitor = new Visitor(this);\n  }\n\n  run(root) {\n    return\n    this._visitor.visit(root);\n  }\n\n  visitDeclaration(declNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitMixinDefinition(mixinDefinitionNode, visitArgs) {\n    visitArgs.visitDeeper = false;\n  }\n\n  visitRuleset(rulesetNode, visitArgs) {\n    const context = this.contexts[this.contexts.length - 1];\n    const paths\n    = [];\n    let selectors;\n    this.contexts.push(paths);\n\n    if (!rulesetNode.root) {\n      selectors =\n      rulesetNode.selectors;\n      if (selectors) {\n        selectors = selectors.filter(selector =>\n        selector.getIsOutput());\n        rulesetNode.selectors = selectors.length ? selectors : (selectors = null);\n      }\n      if (selectors) {\n        rulesetNode.joinSelectors(paths,\n        context, selectors);\n      }\n      if (!selectors) {\n        rulesetNode.rules = null;\n      }\n      rulesetNode.paths =\n      paths;\n    }\n  }\n\n  visitRulesetOut(rulesetNode) {\n    this.contexts.length = this.contexts.length - 1;\n  }\n\n  visitMedia(mediaNode, visitArgs) {\n    const context = this.contexts[this.contexts.length - 1];\n    mediaNode.rules[0].root = (context.length === 0 || context[0].multiMedia);\n  }\n\n  visitAtRule(atRuleNode,\n  visitArgs) {\n    const context = this.contexts[this.contexts.length - 1];\n    if (atRuleNode.rules &&\n    atRuleNode.rules.length) {\n      atRuleNode.rules[0].root = (atRuleNode.isRooted || context.length === 0 ||\n      null);\n    }\n  }\n}\n\nexport default JoinSelectorVisitor;\n", "import tree from './tree';\nimport Visitor from\n './visitor';\n\nclass CSSVisitorUtils {\n  constructor(context) {\n    this._visitor = new Visitor(this);\n    this._context = context;\n  }\n\n  containsSilentNonBlockedChild(bodyRules) {\n    let rule;\n    if (!bodyRules) {\n      return\n      false;\n    }\n    for (let r = 0; r < bodyRules.length; r++) {\n      rule = bodyRules[r];\n      if\n      (rule.isSilent && rule.isSilent(this._context) && !rule.blocksVisibility()) {\n        // the atrule contains\n        something that was referenced (likely by extend)\n        // therefore it needs to be shown in output too\n        return true;\n      }\n    }\n    return false;\n  }\n\n  keepOnlyVisibleChilds(owner) {\n    if (owner &&\n    owner.rules) {\n      owner.rules = owner.rules.filter(thing => thing.isVisible());\n    }\n  }\n\n  isEmpty(owner) {\n    return (owner && owner.rules) \n    ? (owner.rules.length === 0) : true;\n  }\n\n  hasVisibleSelector(rulesetNode) {\n    return (rulesetNode && rulesetNode.paths) \n    ?\n    (rulesetNode.paths.length > 0) : false;\n  }\n\n  resolveVisibility(node, originalRules) {\n    if (!node.blocksVisibility()) {\n      if\n      (this.isEmpty(node) && !this.containsSilentNonBlockedChild(originalRules)) {\n        return ;\n      }\n    }\n    return node;\n  }\n\n  const compiledRulesBody = node.rules[0];\n  this.keepOnlyVisibleChilds(compiledRulesBody);\n  if (this.isEmpty(compiledRulesBody)) {\n    return\n    ;\n  }\n  node.ensureVisibility();\n  node.removeVisibilityBlock();\n  return node;\n}\n\nisVisibleRuleset(rulesetNode) {\n  if (rulesetNode.firstRoot) {\n    return true;\n  }\n  if\n  (this.isEmpty(rulesetNode)) {\n    return false;\n  }\n  if (!rulesetNode.root &&\n  !this.hasVisibleSelector(rulesetNode)) {\n    return false;\n  }\n  return true;\n}\n\nconst\n  ToCSSVisitor = function(context) {\n    this._visitor = new Visitor(this);\n  }

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    this._context = context;\n    this.utils = new CSSVisitorUtils(context);\n};\n\nToCSSVisitor.prototype = {\n  isReplacing: true,\n  run: function (root) {\n    return this._visitor.visit(root);\n  },\n  visitDeclaration:\n  function (declNode, visitArgs) {\n    if (declNode.blocksVisibility() || declNode.variable) {\n      return;\n    }\n    return declNode;\n  },\n  visitMixinDefinition: function (mixinNode, visitArgs) {\n    // mixin\n    definitions do not get eval'd - this means they keep state\n    // so we have to clear that state here so it isn't used if\n    toCSS is called twice\n    mixinNode.frames = [];\n  },\n  visitExtend: function (extendNode, visitArgs) {\n  },\n  visitComment: function (commentNode, visitArgs) {\n    if (commentNode.blocksVisibility() ||\n    commentNode.isSilent(this._context)) {\n      return;\n    }\n    return commentNode;\n  },\n  visitMedia: function(mediaNode, visitArgs)\n  {\n    const originalRules = mediaNode.rules[0].rules;\n    mediaNode.accept(this._visitor);\n    visitArgs.visitDeeper = false;\n    return this.utils.resolveVisibility(mediaNode, originalRules);\n  },\n  visitImport: function (importNode, visitArgs) {\n    if (importNode.blocksVisibility()) {\n      return;\n    }\n    return importNode;\n  },\n  visitAtRule: function(atRuleNode, visitArgs) {\n    if (atRuleNode.rules\n    && atRuleNode.rules.length) {\n      return this.visitAtRuleWithBody(atRuleNode, visitArgs);\n    } else {\n      return this.visitAtRuleWithoutBody(atRuleNode, visitArgs);\n    }\n  },\n  visitAnonymous:\n  function(anonymousNode, visitArgs) {\n    if (!anonymousNode.blocksVisibility()) {\n      anonymousNode.accept(this._visitor);\n      return anonymousNode;\n    }\n  },\n  visitAtRuleWithBody:\n  function(atRuleNode, visitArgs) {\n    // if there is only one nested\n    ruleset and that one has no path, then it is\n    // just fake ruleset\n    function hasFakeRuleset(atRuleNode) {\n      const bodyRules = atRuleNode.rules;\n      return bodyRules.length === 1 && (!bodyRules[0].paths ||\n      bodyRules[0].paths.length === 0);\n    }\n    function getBodyRules(atRuleNode) {\n      const nodeRules =\n      atRuleNode.rules;\n      if (hasFakeRuleset(atRuleNode)) {\n        return nodeRules[0].rules;\n      }\n      return nodeRules;\n    }\n    // it is still true that it is only one ruleset in array\n    // this is last such\n    moment\n    // process childs\n    const originalRules = getBodyRules(atRuleNode);\n    atRuleNode.accept(this._visitor);\n    visitArgs.visitDeeper = false;\n    if (!this.utils.isEmpty(atRuleNode))\n    {\n      this._mergeRules(atRuleNode.rules[0].rules);\n    }\n    return\n    this.utils.resolveVisibility(atRuleNode, originalRules);\n  },\n  visitAtRuleWithoutBody: function(atRuleNode, visitArgs) {\n    if (atRuleNode.blocksVisibility()) {\n      return;\n    }\n    if (atRuleNode.name === '@charset') {\n      // Only output the debug info together\n      with subsequent @charset definitions\n      // a comment (or @media statement) before the actual @charset\n      atrule would\n      // be considered illegal css as it has to be on the first line\n      if (this.charset) {\n        if (atRuleNode.debugInfo) {\n          const comment = new tree.Comment(`/*\n          ${atRuleNode.toCSS(this._context).replace(/\\n/g, " ")} */`);\n          comment.debugInfo =\n          atRuleNode.debugInfo;\n          return this._visitor.visit(comment);\n        }\n        return;\n      }\n      this.charset = true;\n    }\n    return atRuleNode;\n  },\n  checkValidNodes: function(rules,\n  isRoot) {\n    if (!rules) {\n      return;\n    }\n    for (let i = 0; i < rules.length; i++) {\n      const ruleNode = rules[i];\n      if (isRoot &&\n      ruleNode instanceof tree.Declaration && !ruleNode.variable) {\n        throw { message: 'Properties must be\n        inside selector blocks. They cannot be in the root',\n        index: ruleNode.getIndex(), filename:\n        ruleNode.fileInfo() && ruleNode.fileInfo().filename};\n      }\n      if (ruleNode instanceof tree.Call) {\n        throw { message: `Function '${ruleNode.name}' is undefined`,\n        index: ruleNode.getIndex(),\n        filename: ruleNode.fileInfo() && ruleNode.fileInfo().filename};\n      }\n      if (ruleNode.type &&\n      !ruleNode.allowRoot) {\n        throw { message: `${ruleNode.type} node returned by a function is not valid\n        here`,\n        index: ruleNode.getIndex(), filename: ruleNode.fileInfo() && ruleNode.fileInfo().filename};\n      }\n    }\n  },\n  visitRuleset:\n  function (rulesetNode, visitArgs) {\n    // at this point rulesets are nested into each other\n    let rule;\n    const rulesets = [];\n    this.checkValidNodes(rulesetNode.rules, rulesetNode.firstRoot);\n    if\n    (!rulesetNode.root) {\n      // remove invisible paths\n      this._compileRulesetPaths(rulesetNode);\n    }\n  }

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// remove rulesets from this ruleset body and compile them separately\n      const nodeRules =
rulesetNode.rules;\n      let nodeRuleCnt = nodeRules ? nodeRules.length : 0;\n      for (let i = 0; i <
nodeRuleCnt; ) {\n      rule = nodeRules[i];\n      if (rule && rule.rules) {\n      // visit because
we are moving them out from being a child\n      rulesets.push(this._visitor.visit(rule));\n
nodeRules.splice(i, 1);\n      nodeRuleCnt--;\n      continue;\n      }\n      i++;\n
    }\n    // accept the visitor to remove rules and refactor itself\n    // then we can decide nogw whether
we want it or not\n    // compile body\n    if (nodeRuleCnt > 0) {\n
rulesetNode.accept(this._visitor);\n    } else {\n      rulesetNode.rules = null;\n    }\n
visitArgs.visitDeeper = false;\n  } else { // if (! rulesetNode.root) {\n    rulesetNode.accept(this._visitor);\n
    visitArgs.visitDeeper = false;\n  }\n  if (rulesetNode.rules) {\n
this._mergeRules(rulesetNode.rules);\n    this._removeDuplicateRules(rulesetNode.rules);\n  }\n  //
now decide whether we keep the ruleset\n  if (this.utils.isVisibleRuleset(rulesetNode)) {\n
rulesetNode.ensureVisibility();\n    rulesets.splice(0, 0, rulesetNode);\n  }\n  if (rulesets.length === 1)
{\n    return rulesets[0];\n  }\n
  return rulesets;\n  },\n  _compileRulesetPaths: function(rulesetNode) {\n    if (rulesetNode.paths) {\n
rulesetNode.paths = rulesetNode.paths\n      .filter(p => {\n        let i;\n        if
(p[0].elements[0].combinator.value === ' ') {\n          p[0].elements[0].combinator =
new(tree.Combinator)("");\n        }\n        for (i = 0; i < p.length; i++) {\n          if
(p[i].isVisible() && p[i].getIsOutput()) {\n            return true;\n          }\n        }\n
        return false;\n      });\n    },\n    _removeDuplicateRules: function(rules) {\n    if (!rules) {\n
return; }\n    // remove duplicates\n    const ruleCache = {};\n    let ruleList;\n    let rule;\n    let i;\n
    for (i = rules.length - 1; i >= 0; i--) {\n      rule = rules[i];\n      if (rule
instanceof tree.Declaration) {\n        if (!ruleCache[rule.name]) {\n          ruleCache[rule.name] = rule;\n
        } else {\n          ruleList = ruleCache[rule.name];\n          if (ruleList instanceof tree.Declaration)
{\n            ruleList = ruleCache[rule.name] = [ruleCache[rule.name].toCSS(this._context)];\n          }\n
          const ruleCSS = rule.toCSS(this._context);\n          if (ruleList.indexOf(ruleCSS) !== -1) {\n
rules.splice(i, 1);\n          } else {\n            ruleList.push(ruleCSS);\n          }\n        }\n
      }\n    },\n    _mergeRules: function(rules) {\n    if (!rules) {\n      return; }\n    const
groups = {};\n    const groupsArr = [];\n    for (let i = 0; i < rules.length; i++) {\n      const rule =
rules[i];\n      if (rule.merge)
{\n        const key = rule.name;\n        groups[key] ? rules.splice(i--, 1) : \n
groupsArr.push(groups[key] = []);\n        groups[key].push(rule);\n      }\n    }\n
    groupsArr.forEach(group => {\n      if (group.length > 0) {\n        const result = group[0];\n        let
space = [];\n        const comma = [new tree.Expression(space)];\n        group.forEach(rule => {\n
          if ((rule.merge === '+') && (space.length > 0)) {\n            comma.push(new tree.Expression(space =
[]));\n          }\n          space.push(rule.value);\n          result.important = result.important ||
rule.important;\n        });\n        result.value = new tree.Value(comma);\n      }\n    });\n
  }\n};\n\nexport default ToCSSVisitor;\n","import Visitor from './visitor';\nimport ImportVisitor from './import-
visitor';\nimport MarkVisibleSelectorsVisitor
from './set-tree-visibility-visitor';\nimport ExtendVisitor from './extend-visitor';\nimport JoinSelectorVisitor from
 './join-selector-visitor';\nimport ToCSSVisitor from './to-css-visitor';\n\nexport default {\n  Visitor,\n
  ImportVisitor,\n  MarkVisibleSelectorsVisitor,\n  ExtendVisitor,\n  JoinSelectorVisitor,\n
  ToCSSVisitor\n};\n","import chunker from './chunker';\n\nexport default () => {\n  let // Less input string\n
input;\n  let // current chunk\n  j;\n  const // holds state for backtracking\n  saveStack = [];\n  let //
furthest index the parser has gone to\n  furthest;\n  let // if this is furthest we got to, this is the probably
cause\n  furthestPossibleErrorMessage;\n  let // chunkified input\n  chunks;\n  let // current chunk\n
current;\n  let // index of current chunk, in `input`\n  currentPos;\n  const parserInput = {};\n  const
CHARCODE_SPACE = 32;\n

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const CHARCODE_TAB = 9;\n const CHARCODE_LF = 10;\n const CHARCODE_CR = 13;\n const
CHARCODE_PLUS = 43;\n const CHARCODE_COMMA = 44;\n const CHARCODE_FORWARD_SLASH =
47;\n const CHARCODE_9 = 57;\n\n function skipWhitespace(length) {\n const oldi = parserInput.i;\n
const oldj = j;\n const curr = parserInput.i - currentPos;\n const endIndex = parserInput.i + current.length -
curr;\n const mem = (parserInput.i += length);\n const inp = input;\n let c;\n let nextChar;\n let
comment;\n\n for (; parserInput.i < endIndex; parserInput.i++) {\n c = inp.charCodeAt(parserInput.i);\n\n
if (parserInput.autoCommentAbsorb && c === CHARCODE_FORWARD_SLASH) {\n nextChar =
inp.charAt(parserInput.i + 1);\n if (nextChar === '/') {\n comment = {index: parserInput.i,
isLineComment: true};\n let nextNewLine = inp.indexOf('\n',
parserInput.i + 2);\n if (nextNewLine < 0) {\n nextNewLine = endIndex;\n
}\n parserInput.i = nextNewLine;\n comment.text = inp.substr(comment.index, parserInput.i
- comment.index);\n parserInput.commentStore.push(comment);\n continue;\n }
else if (nextChar === '*') {\n const nextStarSlash = inp.indexOf('*', parserInput.i + 2);\n if
(nextStarSlash >= 0) {\n comment = {\n index: parserInput.i,\n text:
inp.substr(parserInput.i, nextStarSlash + 2 - parserInput.i),\n isLineComment: false;\n
};\n parserInput.i += comment.text.length - 1;\n
parserInput.commentStore.push(comment);\n continue;\n
}\n }\n break;\n }\n\n if ((c !== CHARCODE_SPACE) && (c !==
CHARCODE_LF) && (c !== CHARCODE_TAB) && (c !== CHARCODE_CR)) {\n break;\n }\n
}\n\n current = current.slice(length + parserInput.i - mem + curr);\n currentPos = parserInput.i;\n\n
if (!current.length) {\n if (j < chunks.length - 1) {\n current = chunks[++j];\n
skipWhitespace(0); // skip space at the beginning of a chunk\n return true; // things changed\n
}\n\n parserInput.finished = true;\n }\n\n return oldi !== parserInput.i || oldj !== j;\n }\n\n
parserInput.save = () => {\n currentPos = parserInput.i;\n saveStack.push( { current, i: parserInput.i, j });\n
};\n\n parserInput.restore = possibleErrorMessage => {\n\n if (parserInput.i > furthest || (parserInput.i === furthest
&& possibleErrorMessage &&
!furthestPossibleErrorMessage)) {\n furthest = parserInput.i;\n furthestPossibleErrorMessage =
possibleErrorMessage;\n }\n\n const state = saveStack.pop();\n current = state.current;\n currentPos
= parserInput.i = state.i;\n j = state.j;\n }; \n\n parserInput.forget = () => {\n saveStack.pop();\n
};\n\n parserInput.isWhitespace = offset => {\n const pos = parserInput.i + (offset || 0);\n const code =
input.charCodeAt(pos);\n return (code === CHARCODE_SPACE || code === CHARCODE_CR || code ===
CHARCODE_TAB || code === CHARCODE_LF);\n }; \n\n // Specialization of $(tok)\n parserInput.$re = tok
=> {\n if (parserInput.i > currentPos) {\n current = current.slice(parserInput.i - currentPos);\n
currentPos = parserInput.i;\n }\n\n const m = tok.exec(current);\n if (!m) {\n return null;\n
}\n\n skipWhitespace(m[0].length);\n\n if (typeof m === 'string') {\n return m;\n }\n\n return m.length === 1 ? m[0] : m;\n
};\n\n\n parserInput.$char = tok => {\n if (input.charAt(parserInput.i) !== tok) {\n return null;\n
}\n\n skipWhitespace(1);\n return tok;\n }; \n\n\n parserInput.$str = tok => {\n const tokLength = tok.length;\n\n
// https://jsperf.com/string-startswith/21\n for (let i = 0; i < tokLength; i++) {\n if
(input.charAt(parserInput.i + i) !== tok.charAt(i)) {\n return null;\n }\n }\n\n\n skipWhitespace(tokLength);\n return tok;\n
}; \n\n\n parserInput.$quoted = loc => {\n const pos = loc ||
parserInput.i;\n const startChar = input.charAt(pos);\n\n if (startChar !== '"' && startChar !== "'") {\n
return;\n }\n\n const length = input.length;\n const currentPosition = pos;\n\n for (let i = 1; i +
currentPosition < length; i++) {\n const nextChar = input.charAt(i + currentPosition);\n switch
(nextChar) {\n case '\\':\n i++;\n continue;\n case '\\r':\n case
'\n':\n break;\n case startChar:\n const str = input.substr(currentPosition, i + 1);\n
if (!loc && loc !== 0) {\n skipWhitespace(i + 1);\n return str;\n }\n
return [startChar, str];\n default:\n }\n }\n\n return null;\n }; \n\n\n /*\n *

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Permissive parsing. Ignores everything except matching { } [ ] ( ) and quotes\n
* until matching token (outside of blocks)\n
*/\n
parserInput.$parseUntil = tok => {\n
    let quote = ";\n
    let returnVal = null;\n
    let inComment = false;\n
    let blockDepth = 0;\n
    const blockStack = [];\n
    const parseGroups = [];\n
    const length = input.length;\n
    const startPos = parserInput.i;\n
    let lastPos = parserInput.i;\n
    let i = parserInput.i;\n
    let loop = true;\n
    let testChar;\n
    if (typeof tok === 'string') {\n
        testChar = char => char === tok\n
    } else {\n
        testChar = char => tok.test(char)\n
    }\n
    do {\n
        let prevChar;\n
        let nextChar = input.charAt(i);\n
        if (blockDepth === 0 && testChar(nextChar)) {\n
            returnVal = input.substr(lastPos, i - lastPos);\n
            if (returnVal) {\n
                parseGroups.push(returnVal);\n
            }\n
            else {\n
                parseGroups.push(');\n
            }\n
            returnVal = parseGroups;\n
            skipWhitespace(i - startPos);\n
            loop = false;\n
        } else {\n
            if (inComment) {\n
                if (nextChar === '*' && \n
                    input.charAt(i + 1) === '/') {\n
                    i++;;\n
                    blockDepth--;\n
                    inComment = false;\n
                }\n
                i++;;\n
                continue;\n
            }\n
            switch (nextChar) {\n
                case '\\':\n
                    i++;;\n
                    nextChar = input.charAt(i);\n
                    parseGroups.push(input.substr(lastPos, i - lastPos + 1));\n
                    lastPos = i + 1;\n
                    break;\n
                case '/':\n
                    if (input.charAt(i + 1) === '*') {\n
                        i++;;\n
                        inComment = true;\n
                        blockDepth++;\n
                    }\n
                    break;\n
                case '\"':\n
                    case \"'\":\n
                        quote = parserInput.$quoted(i);\n
                        if (quote) {\n
                            parseGroups.push(input.substr(lastPos, i - lastPos, quote));\n
                            i += quote[1].length - 1;\n
                            lastPos = i + 1;\n
                        }\n
                        else {\n
                            skipWhitespace(i - startPos);\n
                            returnVal = nextChar;\n
                            loop = false;\n
                        }\n
                    }\n
                    break;\n
                case '{':\n
                    blockStack.push('{');\n
                    blockDepth++;\n
                    break;\n
                case '(':\n
                    blockStack.push('(');\n
                    blockDepth++;\n
                    break;\n
                case '[':\n
                    blockStack.push('[');\n
                    blockDepth++;\n
                    break;\n
                case '}':\n
                    case ')':\n
                        const expected = blockStack.pop();\n
                        if (nextChar === expected) {\n
                            blockDepth--;\n
                        }\n
                        else {\n
                            // move the parser to the error and return expected\n
                            skipWhitespace(i - startPos);\n
                            returnVal = expected;\n
                            loop = false;\n
                        }\n
                    }\n
                    }\n
                    i++;;\n
                    if (i > length) {\n
                        loop = false;\n
                    }\n
                    }\n
                    prevChar = nextChar;\n
                } while (loop);\n
            }\n
            return returnVal ? returnVal : null;\n
        }\n
        parserInput.autoCommentAbsorb = true;\n
        parserInput.commentStore = [];\n
        parserInput.finished = false;\n
        // Same as $(), but don't change the state of the parser,\n
        // just return the match.\n
        parserInput.peek = tok => {\n
            if (typeof tok === 'string') {\n
                // https://jsperf.com/string-startswith/21\n
                for (let i = 0; i < tok.length; i++) {\n
                    if (input.charAt(parserInput.i + i) !== tok.charAt(i)) {\n
                        return false;\n
                    }\n
                }\n
                return true;\n
            } else {\n
                return tok.test(current);\n
            }\n
        };\n
        // Specialization of peek()\n
        // TODO remove or change some currentChar calls to peekChar\n
        parserInput.peekChar = tok => input.charAt(parserInput.i) === tok;\n
        parserInput.currentChar = () => input.charAt(parserInput.i);\n
        parserInput.prevChar = () => input.charAt(parserInput.i - 1);\n
        parserInput.getInput = () => input;\n
        parserInput.peekNotNumeric = () => {\n
            const c = input.charCodeAt(parserInput.i);\n
            // Is the first char of the dimension 0-9, '.', '+' or '-'\n
            return (c > CHARCODE_9 || c < CHARCODE_PLUS) || c === CHARCODE_FORWARD_SLASH || c === CHARCODE_COMMA;\n
        };\n
        parserInput.start = (str, chunkInput, failFunction) => {\n
            input = str;\n
            parserInput.i = j = currentPos = furthest = 0;\n
            // chunking apparently makes things quicker (but my tests indicate\n
            // it might actually make things slower in node at least)\n
            // and it is a non-perfect parse - it can't recognise\n
            // unquoted urls, meaning it can't distinguish comments\n
            // meaning comments with quotes or {}() in them get 'counted'\n
            // and then lead to parse errors.\n
            // In addition if the chunking chunks in the wrong place we might\n
            // not be able to parse a parser statement in one go\n
            // this is officially

```

```

deprecated but can be switched on via an option // in the case it causes too much performance issues.
if
(chunkInput) {
    chunks = chunker(str, failFunction);
} else {
    chunks = [str];
}
current = chunks[0];
skipWhitespace();
parserInput.end = () => {
    let message;
    const isFinished = parserInput.i >= input.length;
    if (parserInput.i < furthest) {
        message = furthestPossibleErrorMessage;
        parserInput.i = furthest;
    }
    return {
        isFinished,
        furthest: parserInput.i,
        furthestPossibleErrorMessage: message,
        furthestReachedEnd: parserInput.i >= input.length - 1,
        furthestChar: input[parserInput.i]
    };
}
return parserInput;
}";
// Split the input into chunks.
export default (input, fail) => {
    const len = input.length;
    let level = 0;
    let parenLevel = 0;
    let lastOpening;
    let lastOpeningParen;
    let lastMultiComment;
    let lastMultiCommentEndBrace;
    const chunks = [];
    let emitFrom = 0;
    let chunkerCurrentIndex;
    let currentChunkStartIndex;
    let cc;

    let cc2;
    let matched;

    function emitChunk(force) {
        const len = chunkerCurrentIndex - emitFrom;
        if (((len < 512) && !force) || !len) {
            return;
        }
        chunks.push(input.slice(emitFrom, chunkerCurrentIndex + 1));
        emitFrom = chunkerCurrentIndex + 1;
    }

    for (chunkerCurrentIndex = 0; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
        cc = input.charCodeAtAt(chunkerCurrentIndex);
        if (((cc >= 97) && (cc <= 122)) || (cc < 34)) {
            // a-z or whitespace
            continue;
        }

        switch (cc) {
            case 40: // (
                parenLevel++;
                lastOpeningParen = chunkerCurrentIndex;
                continue;
            case 41: // )
                if (--parenLevel < 0) {
                    return fail('missing opening `(`', chunkerCurrentIndex);
                }
                continue;
            case 59: // ;
                if (!parenLevel) {
                    emitChunk();
                }
                continue;
            case 123: // {
                level++;
                lastOpening = chunkerCurrentIndex;
                continue;
            case 125: // }
                if (--level < 0) {
                    return fail('missing opening `{`', chunkerCurrentIndex);
                }
                if (!level && !parenLevel) {
                    emitChunk();
                }
                continue;
            case 92: // \
                if (chunkerCurrentIndex < len - 1) {
                    chunkerCurrentIndex++;
                    continue;
                }
                return fail('unescaped `\\`', chunkerCurrentIndex);
            case 34: // "
            case 39: // '
            case 96: // `
                // ", ' and `
                matched = 0;
                currentChunkStartIndex = chunkerCurrentIndex;
                for (chunkerCurrentIndex = chunkerCurrentIndex + 1; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
                    cc2 = input.charCodeAtAt(chunkerCurrentIndex);
                    if (cc2 > 96) {
                        continue;
                    }
                    if (cc2 === cc) {
                        matched = 1;
                        break;
                    }
                    if (cc2 === 92) {
                        // \
                        if (chunkerCurrentIndex === len - 1) {
                            return fail('unescaped `\\`', chunkerCurrentIndex);
                        }
                        chunkerCurrentIndex++;
                    }
                }
                if (matched) {
                    continue;
                }
                return fail(`unmatched \`${String.fromCharCode(cc)}\``, currentChunkStartIndex);
            case 47: // /
                // check for comment
                if (parenLevel || (chunkerCurrentIndex === len - 1)) {
                    continue;
                }
                cc2 = input.charCodeAtAt(chunkerCurrentIndex + 1);
                if (cc2 === 47) {
                    // //, find lfeed
                    for (chunkerCurrentIndex = chunkerCurrentIndex + 2; chunkerCurrentIndex < len; chunkerCurrentIndex++) {
                        cc2 = input.charCodeAtAt(chunkerCurrentIndex);
                        if ((cc2 <= 13) && ((cc2 === 10) || (cc2 === 13))) {
                            break;
                        }
                    }
                    if (cc2 === 42) {
                        // /*, find */
                        lastMultiComment = currentChunkStartIndex = chunkerCurrentIndex;
                        for (chunkerCurrentIndex = chunkerCurrentIndex + 2; chunkerCurrentIndex < len - 1; chunkerCurrentIndex++) {
                            cc2 = input.charCodeAtAt(chunkerCurrentIndex);
                            if (cc2 === 125) {
                                lastMultiCommentEndBrace = chunkerCurrentIndex;
                                if (cc2 !== 42) {
                                    continue;
                                }
                                if (input.charCodeAtAt(chunkerCurrentIndex + 1) === 47) {
                                    break;
                                }
                                if (chunkerCurrentIndex === len - 1) {
                                    return fail('missing closing `*/`', currentChunkStartIndex);
                                }
                                chunkerCurrentIndex++;
                            }
                            continue;
                        }
                    }
                    case 42: // *, check for unmatched
                    if ((chunkerCurrentIndex < len - 1) && (input.charCodeAtAt(chunkerCurrentIndex + 1) === 47)) {
                        return fail('unmatched `/*`', chunkerCurrentIndex);
                    }
                    continue;
                }
        }
    }
}

```

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(level !== 0) {\n    if ((lastMultiComment > lastOpening) && (lastMultiCommentEndBrace >
lastMultiComment)) {\n        return fail('missing closing `}` or `^`', lastOpening);\n    } else {\n        return
fail('missing closing `}`', lastOpening);\n    }\n } else if (parenLevel !== 0) {\n    return fail('missing closing
`}`, lastOpeningParen);\n }\n\n emitChunk(true);\n return chunks;\n};\n", "import LessError from './less-
error';\nimport tree from
'./tree';\nimport visitors from './visitors';\nimport getParserInput from './parser-input';\nimport * as utils from
'./utils';\nimport functionRegistry from './functions/function-registry';\n\n/\n\n less.js - parser\n/\n\n A relatively
straight-forward predictive parser.\n\n There is no tokenization/lexing stage, the input is parsed\n\n in one
sweep.\n\n To make the parser fast enough to run in the browser, several\n\n optimizations had to be
made:\n\n - Matching and slicing on a huge input is often cause of slowdowns.\n\n The solution is to
chunkify the input into smaller strings.\n\n The chunks are stored in the `chunks` var,\n\n `j` holds the current
chunk index, and `currentPos` holds\n\n the index of the current chunk in relation to `input`.\n\n This gives us
an almost 4x speed-up.\n\n - In many cases, we don't need to match individual tokens;\n\n for example, if a
value doesn't hold any variables, operations\n\n
or dynamic references, the parser can effectively 'skip' it,\n\n treating it as a literal.\n\n An example would
be '1px solid #000' - which evaluates to itself,\n\n we don't need to know what the individual components are.\n\n
The drawback, of course is that you don't get the benefits of\n\n syntax-checking on the CSS. This gives us a
50% speed-up in the parser,\n\n and a smaller speed-up in the code-gen.\n\n Token matching is done with
the `$` function, which either takes\n\n a terminal string or regexp, or a non-terminal function to call.\n\n It also
takes care of moving all the indices forwards.\n\n\nconst Parser = function Parser(context, imports, fileInfo) {\n
let parsers;\n    const parserInput = getParserInput();\n\n    function error(msg, type) {\n        throw new LessError(\n
{\n            index: parserInput.i,\n            filename: fileInfo.filename,\n            type: type || 'Syntax',\n
message: msg\n        },\n        imports\n    );\n }\n\n    function expect(arg, msg) {\n        // some
older browsers return typeof 'function' for RegExp\n        const result = (arg instanceof Function) ? arg.call(parsers) :
parserInput.$re(arg);\n        if (result) {\n            return result;\n        }\n        error(msg || (typeof arg ===
'string' ? `expected '${arg}' got '${parserInput.currentChar()}` : 'unexpected token'));\n    }\n\n    //
Specialization of expect()\n    function expectChar(arg, msg) {\n        if (parserInput.$char(arg)) {\n            return
arg;\n        }\n        error(msg || `expected '${arg}' got '${parserInput.currentChar()}`);\n    }\n\n    function
getDebugInfo(index) {\n        const filename = fileInfo.filename;\n        return {\n            lineNumber:
utils.getLocation(index, parserInput.getInput()).line + 1,\n            fileName: filename\n        }; \n    }\n\n    /**\n
* Used after initial parsing to create nodes on the fly\n
* \n
* @param {String} str - string to parse \n
* @param {Array} parseList - array of parsers to run input through e.g. ["value", "important"]\n
* @param {Number} currentIndex - start number to begin indexing\n
* @param {Object} fileInfo - fileInfo to attach to
created nodes\n
* \n
function parseNode(str, parseList, currentIndex, fileInfo, callback) {\n    let result;\n
const returnNodes = [];\n    const parser = parserInput;\n\n    try {\n        parser.start(str, false, function
fail(msg, index) {\n            callback({\n                message: msg,\n                index: index + currentIndex\n
});\n        });\n        for (let x = 0, p, i; (p = parseList[x]); x++) {\n            i = parser.i;\n            result
= parsers[p]();\n            if (result) {\n                try {\n
                    result._index = i + currentIndex;\n                    result._fileInfo = fileInfo;\n                } catch (e) {\n
returnNodes.push(result);\n                }\n            } else {\n                returnNodes.push(null);\n            }\n
}\n\n            const endInfo = parser.end();\n            if (endInfo.isFinished) {\n                callback(null,
returnNodes);\n            } else {\n                callback(true, null);\n            } catch (e) {\n                throw
new LessError({\n                    index: e.index + currentIndex,\n                    message: e.message\n                }, imports,
fileInfo.filename);\n            }\n        }\n\n        /\n        // The Parser\n        /\n        return {\n            parserInput,\n            imports,\n
fileInfo,\n            parseNode,\n            /\n            // Parse an input string into an abstract syntax tree,\n            // @param str A
string containing 'less' markup\n            // @param
callback call `callback` when done.\n            // @param [additionalData] An optional map which can contains vars - a
map (key, value) of variables to apply\n            /\n            parse: function (str, callback, additionalData) {\n                let

```



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root;\n      let error = null;\n      let globalVars;\n      let modifyVars;\n      let ignored;\n      let
preText = ";\n      globalVars = (additionalData && additionalData.globalVars) ?
`${Parser.serializeVars(additionalData.globalVars)}\n` : ";\n      modifyVars = (additionalData &&
additionalData.modifyVars) ? `${Parser.serializeVars(additionalData.modifyVars)}\n` : ";\n      if
(context.pluginManager) {\n      const preProcessors = context.pluginManager.getPreProcessors();\n
for (let i = 0; i < preProcessors.length; i++) {\n      str = preProcessors[i].process(str, { context, imports,
fileInfo });\n      }\n      }\n
if (globalVars || (additionalData && additionalData.banner)) {\n      preText = ((additionalData &&
additionalData.banner) ? additionalData.banner : ") + globalVars;\n      ignored =
imports.contentsIgnoredChars;\n      ignored[fileInfo.filename] = ignored[fileInfo.filename] || 0;\n
ignored[fileInfo.filename] += preText.length;\n      }\n      str = str.replace(/\r\n/g, '\n');\n      //
Remove potential UTF Byte Order Mark\n      str = preText + str.replace(/^\uFEFF/, ") + modifyVars;\n
imports.contents[fileInfo.filename] = str;\n      }\n      // Start with the primary rule.\n      // The whole syntax tree
is held under a Ruleset node,\n      // with the `root` property set to true, so no `{}` are\n      // output. The
callback is called when the input is parsed.\n      try {\n      parserInput.start(str, context.chunkInput,
function fail(msg, index) {\n
throw new LessError({\n      index,\n      type: 'Parse',\n      message:
msg,\n      filename: fileInfo.filename\n      }, imports);\n      });\n      }\n
tree.Node.prototype.parse = this;\n      root = new tree.Ruleset(null, this.parsers.primary());\n
tree.Node.prototype.rootNode = root;\n      root.root = true;\n      root.firstRoot = true;\n
root.functionRegistry = functionRegistry.inherit();\n      }\n      } catch (e) {\n      return callback(new
LessError(e, imports, fileInfo.filename));\n      }\n      // If `i` is smaller than the `input.length - 1`,\n
// it means the parser wasn't able to parse the whole\n      // string, so we've got a parsing error.\n      //\n
// We try to extract a \n delimited string,\n      // showing
the line where the parse error occurred.\n      // We split it up into two parts (the part which parsed,\n      //
and the part which didn't), so we can color them differently.\n      const endInfo = parserInput.end();\n      if
(!endInfo.isFinished) {\n      let message = endInfo.furthestPossibleErrorMessage;\n      if
(!message) {\n      message = 'Unrecognised input';\n      if (endInfo.furthestChar === ')') {\n
message += ' Possibly missing opening \'';\n      } else if (endInfo.furthestChar === ')') {\n
message += ' Possibly missing opening \'';\n      } else if (endInfo.furthestReachedEnd) {\n
message += ' Possibly missing something';\n      }\n      }\n      error = new
LessError({\n      type: 'Parse',\n      message,\n      index: endInfo.furthest,\n      filename: fileInfo.filename\n      }, imports);\n      }\n
const finish = e => {\n      e = error || e || imports.error;\n      if (e) {\n      if (!(e instanceof
LessError)) {\n      e = new LessError(e, imports, fileInfo.filename);\n      }\n      }\n
return callback(e);\n      }\n      else {\n      return callback(null, root);\n      }\n
};\n      if (context.processImports !== false) {\n      new visitors.ImportVisitor(imports, finish)\n      .run(root);\n      } else {\n      return finish();\n      }\n      },\n      }\n      // Here in, the parsing
rules/functions\n      //\n      // The basic structure of the syntax tree generated is as follows:\n      //\n      //
Ruleset -> Declaration ->
Value -> Expression -> Entity\n      //\n      // Here's some Less code:\n      //\n      // .class {\n      // color:
#fff;\n      // border: 1px solid #000;\n      // width: @w + 4px;\n      // > .child {...}\n      // }\n
//\n      // And here's what the parse tree might look like:\n      //\n      // Ruleset (Selector '.class', [\n      //
Declaration ("color", Value ([Expression [Color #fff]]))\n      // Declaration ("border", Value ([Expression
[Dimension 1px][Keyword "solid"][Color #000]]))\n      // Declaration ("width", Value ([Expression
[Operation "+" [Variable "@w"][Dimension 4px]]))\n      // Ruleset (Selector [Element '>', '.child'], [...])\n
// )\n      //\n      // In general, most rules will try to parse a token with the `$(re)` function, and if the
return\n      // value is truly, will return a new node, of the relevant type. Sometimes,

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we need to check\n      // first, before parsing, that's when we use `peek()`. \n      // \n      parsers: parsers = {\n
// \n      // The `primary` rule is the *entry* and *exit* point of the parser. \n      // The rules here can appear
at any level of the parse tree. \n      // \n      // The recursive nature of the grammar is an interplay between the
`block`\n      // rule, which represents `{ ... }`, the `ruleset` rule, and this `primary` rule, \n      // as represented
by this simplified grammar: \n      // \n      // primary (ruleset | declaration)+ \n      // ruleset
selector+ block \n      // block {' primary '}\n      // \n      // Only at one point is the primary rule not
called from the\n      // block rule: at the root level. \n      // \n      primary: function () {\n      const
mixin = this.mixin;\n      let root = [];\n
      let node;\n      while (true) {\n      while (true) {\n      node = this.comment();\n
      if (!node) { break; }\n      root.push(node);\n      } \n      // always process
comments before deciding if finished\n      if (parserInput.finished) {\n      break;\n
}\n      if (parserInput.peek('=')) {\n      break;\n      } \n      node =
this.extendRule();\n      if (node) {\n      root = root.concat(node);\n      continue;\n
      } \n      node = mixin.definition() || this.declaration() || mixin.call(false, false) || \n
this.ruleset() || this.variableCall() || this.entities.call() || this.atrule();\n      if (node) {\n
root.push(node);\n
      } else {\n      let foundSemiColon = false;\n      while (parserInput.$char(';')) {\n
      foundSemiColon = true;\n      } \n      if (!foundSemiColon) {\n
break;\n      } \n      } \n      } \n      return root;\n      }, \n      // comments
are collected by the main parsing mechanism and then assigned to nodes\n      // where the current structure
allows it\n      comment: function () {\n      if (parserInput.commentStore.length) {\n      const
comment = parserInput.commentStore.shift();\n      return new(tree.Comment)(comment.text,
comment.isLineComment, comment.index, fileInfo);\n      } \n      }, \n      // \n      // Entities are
tokens which can be found inside an Expression\n      // \n
      entities: {\n      mixinLookup: function() {\n      return parsers.mixin.call(true, true);\n
}, \n      // \n      // A string, which supports escaping ` ` and ` ` \n      // \n      // ` `milky way`
`he`s the one!`\n      // \n      quoted: function (forceEscaped) {\n      let str;\n      const
index = parserInput.i;\n      let isEscaped = false;\n      parserInput.save();\n      if
(parserInput.$char('~')) {\n      isEscaped = true;\n      } else if (forceEscaped) {\n
parserInput.restore();\n      return;\n      } \n      str = parserInput.$quoted();\n
if (!str) {\n      parserInput.restore();\n      return;\n      } \n
      parserInput.forget();\n      return new(tree.Quoted)(str.charAt(0), str.substr(1, str.length - 2), isEscaped,
index, fileInfo);\n      }, \n      // \n      // A catch-all word, such as: \n      // \n      //
black border-collapse\n      // \n      keyword: function () {\n      const k = parserInput.$char('%')
|| parserInput.$re(/^\\[[?([\\w-]\\\\\\(?:[A-Za-f0-9]{1,6} ?|[A-Za-f0-9]))+\\]?); \n      if (k) {\n
return tree.Color.fromKeyword(k) || new(tree.Keyword)(k);\n      } \n      }, \n      // \n
// A function call\n      // \n      // rgb(255, 0, 255)\n      // \n      // The arguments are parsed
with the `entities.arguments` parser. \n      // \n      call: function () {\n      let name;\n
let args;\n
      let func;\n      const index = parserInput.i;\n      // http://jsperf.com/case-insensitive-
regex-vs-strtolower-then-regex/18\n      if (parserInput.peek(/^url\\/(i)) {\n      return;\n
      } \n      parserInput.save();\n      name = parserInput.$re(/^(\\w-)+%progid:(\\w\\.)+\\(\\)/);\n
      if (!name) {\n      parserInput.forget(); \n      return;\n      } \n      name = name[1];\n
      func = this.customFuncCall(name);\n      if (func) {\n      args =
func.parse();\n      if (args && func.stop) {\n      parserInput.forget();\n
return args;\n      } \n      } \n      } \n      args = this.arguments(args);\n      if
(!parserInput.$char(''))

```

```

{\n                parserInput.restore('Could not parse call arguments or missing \\')\n\n                return;\n\n        }\n\n        parserInput.forget();\n\n        return new(tree.Call)(name, args, index, fileInfo);\n\n    },\n\n    // Parsing rules for functions with non-standard args, e.g.:\n\n    // boolean(not(2 > 1))\n\n    // This is a quick prototype, to be\n\n    modified/improved when\n\n    // more custom-parsed funcs come (e.g. `selector(...)`)\n\n    //\n\n    customFuncCall: function (name) {\n\n        /* Ideally the table is to be moved out of here for faster perf.,\n\n        but it's quite tricky since it relies on all these `parsers`\n\n        and `expect` available only here\n\n        */\n\n        return\n\n        {\n\n            alpha: f(parsers.ieAlpha, true),\n\n            boolean: f(condition),\n\n            'if':\n\n            f(condition)\n\n            }[name.toLowerCase()];\n\n        function f(parse, stop) {\n\n            return\n\n            {\n\n                parse, // parsing function\n\n                stop // when true - stop after parse() and return its\n\n                result, \n\n                // otherwise continue for plain args\n\n            };\n\n        }\n\n        function condition() {\n\n            return [expect(parsers.condition, 'expected condition')];\n\n        }\n\n        },\n\n        arguments: function (prevArgs) {\n\n            let argsComma = prevArgs || [];\n\n            const argsSemiColon = [];\n\n            let isSemiColonSeparated;\n\n            let value;\n\n            parserInput.save();\n\n            while (true) {\n\n                if (prevArgs) {\n\n                    prevArgs = false;\n\n                }\n\n            else {\n\n                value = parsers.detachedRuleset() || this.assignment() || parsers.expression();\n\n                if (!value) {\n\n                    break;\n\n                }\n\n                if (value.value &&\n\n                value.value.length == 1) {\n\n                    value = value.value[0];\n\n                }\n\n                argsComma.push(value);\n\n                }\n\n                if (parserInput.$char(',') {\n\n                    continue;\n\n                }\n\n                if (parserInput.$char(';') || isSemiColonSeparated) {\n\n                    isSemiColonSeparated = true;\n\n                    value = (argsComma.length < 1) ? argsComma[0]\n\n                    : new tree.Value(argsComma);\n\n                    argsSemiColon.push(value);\n\n                }\n\n                argsComma = [];\n\n                }\n\n                }\n\n            parserInput.forget();\n\n            return\n\n            isSemiColonSeparated ? argsSemiColon : argsComma;\n\n        },\n\n        literal: function () {\n\n            return this.dimension() ||\n\n            this.color() ||\n\n            this.quoted() ||\n\n            this.unicodeDescriptor();\n\n        },\n\n        // Assignments are argument entities for calls.\n\n        //\n\n        // They are present in ie filter properties as shown below.\n\n        //\n\n        // filter:\n\n        progid:DXImageTransform.Microsoft.Alpha( *opacity=50* )\n\n        assignment: function () {\n\n            let key;\n\n            let value;\n\n            parserInput.save();\n\n            key = parserInput.$re(/^\\w+(?=\\s?|=)/i);\n\n            if (!key) {\n\n                parserInput.restore();\n\n                return;\n\n            }\n\n            if (!parserInput.$char('=')) {\n\n                parserInput.restore();\n\n                return;\n\n            }\n\n            value = parsers.entity();\n\n            if\n\n            (value) {\n\n                parserInput.forget();\n\n                return new(tree.Assignment)(key, value);\n\n            }\n\n            } else {\n\n                parserInput.restore();\n\n                }\n\n            },\n\n            //\n\n            // We use a specific rule for urls, because they don't really behave like\n\n            //\n\n            // standard function calls. The difference is that the argument doesn't have\n\n            //\n\n            // to be enclosed within a string,\n\n            //\n\n            // so it can't be parsed as an Expression.\n\n            //\n\n            url: function () {\n\n                let value;\n\n                const index = parserInput.i;\n\n                parserInput.autoCommentAbsorb = false;\n\n                if\n\n                (!parserInput.$str('url(')) {\n\n                    parserInput.autoCommentAbsorb = true;\n\n                    return;\n\n                }\n\n                }\n\n                value = this.quoted() || this.variable() || this.property() ||\n\n                parserInput.$re(/^(:?\\:\\\\|\\(\\|\\)\"|\"|\\[\"|\\]|\\+)+ || \"";\n\n                parserInput.autoCommentAbsorb = true;\n\n                }\n\n                expectChar(');\n\n                return new(tree.URL)((value.value != null || \n\n                value\n\n                instanceof tree.Variable ||\n\n                value instanceof tree.Property) ?\n\n                value :\n\n                new(tree.Anonymous)(value, index), index, fileInfo);\n\n            },\n\n            //\n\n            // A Variable entity, such as `@fink`, in\n\n            //\n\n            // width: @fink + 2px\n\n            //\n\n            // We use a different parser for variable definitions,\n\n            //\n\n            // see `parsers.variable`.\n\n

```

```

/\n      variable: function () {\n          let ch;\n          let name;\n          const index =
parserInput.i;\n          parserInput.save();\n          if (parserInput.currentChar() === '@' && (name =
parserInput.$re(/^@@[?[\w-]+/)) {\n          ch = parserInput.currentChar();\n          if (ch === '(' ||
ch === '[' && !parserInput.prevChar().match(/^[s/]) {\n          // this may be a VariableCall lookup\n          const result = parsers.variableCall(name);\n          if (result) {\n
parserInput.forget();\n          return result;\n          }\n          }\n          parserInput.forget();\n
return new(tree.Variable)(name, index, fileInfo);\n          }\n          parserInput.restore();\n
},\n\n      // A variable entity using the protective {} e.g. @{var}\n      variableCurly: function () {\n
let curly;\n      const index = parserInput.i;\n      if (parserInput.currentChar() === '@' &&
(curlly = parserInput.$re(/^@\{([\w-]+\})\})) {\n      return new(tree.Variable)('@${curly[1]}', index,
fileInfo);\n      }\n      },\n      //\n      // A Property accessor, such as `$color`, in\n
/\n      // background-color: $color\n      //\n      property: function () {\n          let name;\n
const index = parserInput.i;\n          if (parserInput.currentChar() === '$' && (name =
parserInput.$re(/^$\{[\w-]+\}) {\n          return new(tree.Property)(name, index, fileInfo);\n          }\n
},\n\n      // A property entity using the protective {} e.g. ${prop}\n      propertyCurly: function
() {\n          let curly;\n          const index = parserInput.i;\n          if (parserInput.currentChar()
=== '$' && (curly = parserInput.$re(/^$\{([\w-]+\})\})) {\n          return
new(tree.Property)('${curly[1]}', index, fileInfo);\n          }\n          },\n          //\n          // A
Hexadecimal color\n          //\n          // #4F3C2F\n          //\n          // `rgb` and `hsl` colors are
parsed through the `entities.call` parser.\n          //\n          color: function () {\n
let rgb;\n          parserInput.save();\n          if (parserInput.currentChar() === '#' && (rgb =
parserInput.$re(/^#[A-Fa-f0-9]{8}|[A-Fa-f0-9]{6}|[A-Fa-f0-9]{3,4})([\w.#\[\]]?/)) {\n          if (!rgb[2])
{\n          parserInput.forget();\n          return new(tree.Color)(rgb[1], undefined, rgb[0]);\n
}\n          }\n          parserInput.restore();\n          },\n\n          colorKeyword: function ()
{\n          parserInput.save();\n          const autoCommentAbsorb = parserInput.autoCommentAbsorb;\n
parserInput.autoCommentAbsorb = false;\n          const k = parserInput.$re(/^[_A-Za-z-][_A-Za-z0-9-]+/);\n
parserInput.autoCommentAbsorb = autoCommentAbsorb;\n          if (!k) {\n
parserInput.forget();\n          return;\n
}\n          parserInput.restore();\n          const color = tree.Color.fromKeyword(k);\n          if
(color) {\n          parserInput.$str(k);\n          return color;\n          }\n          },\n\n          //\n          // A Dimension, that is, a number and a unit\n          //\n          // 0.5em 95%\n          //\n
dimension: function () {\n          if (parserInput.peekNotNumeric()) {\n          return;\n
}\n          const value = parserInput.$re(/^([+-]?[d*\.]?[d+](%|[a-z_]+)?/i);\n          if (value) {\n
return new(tree.Dimension)(value[1], value[2]);\n          }\n          },\n          //\n          // A
unicode descriptor, as is used in unicode-range\n          //\n          // U+0?? or U+00A1-00A9\n
/\n          unicodeDescriptor: function () {\n          let ud;\n          ud =
parserInput.$re(/^U\+[0-9a-fA-F?]+\([\-[0-9a-fA-F?]+\)/);\n          if (ud) {\n          return
new(tree.UnicodeDescriptor)(ud[0]);\n          }\n          },\n          //\n          // JavaScript code to be
evaluated\n          //\n          // `window.location.href`\n          //\n          javascript: function () {\n
let js;\n          const index = parserInput.i;\n          parserInput.save();\n          const
escape = parserInput.$char('~');\n          const jsQuote = parserInput.$char("`");\n          if (!jsQuote) {\n
parserInput.restore();\n          return;\n          }\n          js =
parserInput.$re(/^[\^]*~/);\n          if (js) {\n
parserInput.forget();\n          return new(tree.JavaScript)(js.substr(0, js.length - 1),
Boolean(escape), index, fileInfo);\n          }\n          parserInput.restore('invalid javascript definition');\n
}\n          },\n          //\n          // The variable part of a variable definition. Used in the `rule` parser\n

```

```

//\n      // @fink:\n      //\n      variable: function () {\n          let name;\n          if
(parserInput.currentChar() === '@' && (name = parserInput.$re(/^(@[\\w-]+)\\s*/:))) { return name[1]; }\n
},\n\n      //\n      // Call a variable value to retrieve a detached ruleset\n      // or a value from a detached
ruleset's rules.\n      //\n      // @fink();\n      // @fink;\n      // color: @fink[@color];\n
\n\n      variableCall: function (parsedName) {\n
          let lookups;\n          const i = parserInput.i;\n          const inValue = !parsedName;\n          let name =
parsedName;\n          parserInput.save();\n          if (name || (parserInput.currentChar() === '@'\n
          && (name = parserInput.$re(/^(@[\\w-]+)(\\(\\(\\s*\\|\\)?/)))) {\n          lookups =
this.mixin.ruleLookups();\n          if (!lookups && ((inValue && parserInput.$str('(') !== '(') || (name[2]
!== '('))) {\n          parserInput.restore('Missing \\[...] lookup in variable call');\n          return;\n
          }\n          if (!inValue) {\n          name = name[1];\n          }\n          const call
= new tree.VariableCall(name, i, fileInfo);\n          if (!inValue && parsers.end()) {\n
parserInput.forget();\n          return call;\n          }\n
          else {\n          parserInput.forget();\n          return new tree.NamespaceValue(call,
lookups, i, fileInfo);\n          }\n          }\n          parserInput.restore();\n          },\n          //\n
// extend syntax - used to extend selectors\n          //\n          extend: function(isRule) {\n          let elements;\n
          let e;\n          const index = parserInput.i;\n          let option;\n          let extendList;\n          let
extend;\n          if (!parserInput.$str(isRule ? '&:extend(' : ':extend(')) {\n          return;\n          }\n
          do {\n          option = null;\n          elements = null;\n          while (!(option =
parserInput.$re(/^(all)(?=\s*(\\|,))/)) {\n          e = this.element();\n          if (!e) {\n
          break;\n          }\n          if (elements) {\n          elements.push(e);\n          } else {\n
          elements = [ e ];\n          }\n          }\n          option = option && option[1];\n
          if (!elements) {\n          error('Missing target selector for :extend().');\n          }\n
          extend = new(tree.Extend)(new(tree.Selector)(elements), option, index, fileInfo);\n          if (extendList) {\n
          extendList.push(extend);\n          } else {\n          extendList = [ extend ];\n          }\n
          } while (parserInput.$char(',')\n          expect(/^(\\|,)/);\n          if (isRule) {\n
          expect(/^(^)/);\n          }\n          return extendList;\n          },\n          //\n          // extendRule
- used in a rule to extend all the parent selectors\n          //\n          extendRule: function() {\n          return
this.extend(true);\n          },\n          //\n          // Mixins\n          //\n          mixin: {\n          //\n          //
A Mixin call, with an optional argument list\n          //\n          // #mixins > .square(#fff);\n          //
#mixins.square(#fff);\n          // .rounded(4px, black);\n          // .button;\n          //\n          // We
can lookup / return a value using the lookup syntax;\n          //\n          // color:
#mixin.square(#fff)[@color];\n          //\n          // The `while` loop is there because mixins can be\n
// namespaced, but we only support the child and descendant\n          // selector for now.\n          //\n
call: function (inValue, getLookup) {\n
          const s = parserInput.currentChar();\n          let important = false;\n          let lookups;\n
          const index = parserInput.i;\n          let elements;\n          let args;\n          let hasParens;\n
          if (s !== '.' && s !== '#') { return; }\n          parserInput.save(); // stop us absorbing part of an invalid
selector\n          elements = this.elements();\n          if (elements) {\n          if
(parserInput.$char('(') {\n          args = this.args(true).args;\n          expectChar(')');\n
          hasParens = true;\n          }\n          if (getLookup !== false) {\n          lookups =
this.ruleLookups();\n          }\n          if (getLookup === true && !lookups) {\n
parserInput.restore();\n          return;\n          }\n          if (inValue && !lookups && !hasParens) {\n
// This isn't a valid in-value mixin call\n          parserInput.restore();\n          return;\n
          }\n          if (!inValue && parsers.important()) {\n          important = true;\n
          }\n          }\n          if (inValue || parsers.end()) {\n          parserInput.forget();\n

```

```

const mixin = new(tree.mixin.Call)(elements, args, index, fileInfo, !lookups && important);\n
(lookups) {\n
    return new tree.NamespaceValue(mixin, lookups);\n
}\n
else {\n
    return mixin;\n
}\n
}\n\n
parserInput.restore();\n
},\n
/**\n
 * Matching elements for\n
mixins\n
 * (Start with . or # and can have >)\n
 */\n
elements: function() {\n
let elements;\n
let e;\n
let c;\n
let elem;\n
let elemIndex;\n
const re = /^[.#](?:[\w-]|\|\\|(?:[A-Za-f0-9]{1,6} ?[^\A-Za-f0-9]))+;/;\n
while (true) {\n
elemIndex = parserInput.i;\n
e = parserInput.$re(re);\n
\n
if (!e) {\n
break;\n
}\n
elem = new(tree.Element)(c, e, false, elemIndex, fileInfo);\n
if (elements) {\n
elements.push(elem);\n
} else {\n
elements = [ elem ];\n
}\n
c = parserInput.$char('>');\n
}\n
return elements;\n
},\n
args: function (isCall) {\n
const entities =\n
parsers.entities;\n
const returner = { args:null, variadic: false };\n
let expressions = [];\n
const argsSemiColon = [];\n
const argsComma = [];\n
let isSemiColonSeparated;\n
let expressionContainsNamed;\n
let name;\n
let nameLoop;\n
let value;\n
let arg;\n
let expand;\n
let hasSep = true;\n\n
parserInput.save();\n\n
while (true) {\n
if (isCall) {\n
arg = parsers.detachedRuleset() ||\n
parsers.expression();\n
} else {\n
parserInput.commentStore.length = 0;\n
if\n
(parserInput.$str('...')) {\n
returner.variadic = true;\n
if (parserInput.$char(';')\n
&& !isSemiColonSeparated) {\n
isSemiColonSeparated = true;\n
}\n
(isSemiColonSeparated ? argsSemiColon : argsComma)\n
.push({ variadic: true\n
});\n
break;\n
}\n
arg = entities.variable() || entities.property() ||\n
entities.literal() || entities.keyword() || this.call(true);\n
}\n\n
if (!arg || !hasSep) {\n
break;\n
}\n\n
nameLoop = null;\n
if\n
(arg.throwAwayComments)\n
{\n
arg.throwAwayComments();\n
}\n
value = arg;\n
let\n
val = null;\n
if (isCall) {\n
// Variable\n
if (arg.value &&\n
arg.value.length == 1) {\n
val = arg.value[0];\n
}\n
} else {\n
val = arg;\n
}\n\n
if (val && (val instanceof tree.Variable || val instanceof\n
tree.Property)) {\n
if (parserInput.$char(':')) {\n
if (expressions.length > 0) {\n
if (isSemiColonSeparated) {\n
error('Cannot mix ; and , as delimiter\n
types');\n
}\n
expressionContainsNamed = true;\n
}\n\n
value = parsers.detachedRuleset() || parsers.expression();\n\n
if (!value) {\n
if (isCall) {\n
error('could not understand value\n
for named argument');\n
} else {\n
parserInput.restore();\n
}\n
returner.args = [];\n
return returner;\n
}\n
}\n
nameLoop = (name = val.name);\n
} else if (parserInput.$str('...')) {\n
if\n
(!isCall) {\n
returner.variadic = true;\n
if\n
(parserInput.$char(';') && !isSemiColonSeparated) {\n
isSemiColonSeparated = true;\n
}\n
(isSemiColonSeparated ?\n
argsSemiColon : argsComma)\n
.push({ name: arg.name, variadic: true });\n
break;\n
} else {\n
expand = true;\n
}\n
} else if (!isCall) {\n
name = nameLoop = val.name;\n
value = null;\n
}\n
}\n\n
if (value) {\n
expressions.push(value);\n
}\n\n
argsComma.push({ name:nameLoop, value, expand });\n
if\n
(parserInput.$char(',') ) {\n
hasSep = true;\n
continue;\n
}\n
}

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        hasSep = parserInput.$char(';') === ';' ;\n\n
        if (expressionContainsNamed) {\n
            isSemiColonSeparated = true;\n\n
            value = new(tree.Value)(expressions);\n
        }\n\n
        argsSemiColon.push({ name, value, expand });\n\n
        name = null;\n\n
        expressions =
    [];\n\n
    expressionContainsNamed = false;\n\n
    }\n\n
    }\n\n
    parserInput.forget();\n\n
    returner.args = isSemiColonSeparated ? argsSemiColon : argsComma;\n\n
    return returner;\n\n
    },\n\n
    /\n\n
    // A Mixin definition, with a list of parameters\n\n
    /\n\n
    // .rounded (@radius:
    2px, @color) {\n\n
    // ... \n\n
    // }\n\n
    /\n\n
    // Until we have a finer grained state-
    machine, we have to\n\n
    // do a look-ahead, to make sure we don't have a mixin call.\n\n
    // See the
    `rule` function for more information.\n\n
    /\n\n
    // We start by matching `rounded`, and then proceed
    on to\n\n
    // the argument list, which has optional default values.\n\n
    // We store the parameters in
    `params`, with a `value` key,\n\n
    // if there is a value, such as in the case of `@radius`.\n\n
    /\n\n
    // Once we've got our params list, and a closing `}`, we parse\n\n
    // the `{...}` block.\n\n
    /\n\n
    definition: function () {\n\n
    let
    name;\n\n
    let params = [];\n\n
    let match;\n\n
    let ruleset;\n\n
    let cond;\n\n
    let variadic = false;\n\n
    if ((parserInput.currentChar() !== '.' && parserInput.currentChar() !== '#')
    /\n\n
    parserInput.peek(/^[^{}*\\]/)) {\n\n
    return;\n\n
    }\n\n
    parserInput.save();\n\n
    match = parserInput.$re(/^(#[.#.](?:[\\w-]\\\\\\\\(?:?:[A-Za-f0-9]{1,6} ?(?:^A-Za-f0-9-
    9]))+)?s*(/);\n\n
    if (match) {\n\n
    name = match[1];\n\n
    const argInfo =
    this.args(false);\n\n
    params = argInfo.args;\n\n
    variadic = argInfo.variadic;\n\n
    // .mixincall("@{a}");\n\n
    // looks a bit like a mixin definition..\n\n
    // also\n\n
    // .mixincall(@a: {rule:
    set;});\n\n
    // so we have to be nice and restore\n\n
    if (!parserInput.$char('')) {\n\n
    parserInput.restore('Missing closing \\')');\n\n
    return;\n\n
    }\n\n
    parserInput.commentStore.length = 0;\n\n
    if (parserInput.$str('when')) { // Guard\n\n
    cond = expect(parsers.conditions, 'expected condition');\n\n
    }\n\n
    ruleset =
    parsers.block();\n\n
    if (ruleset) {\n\n
    parserInput.forget();\n\n
    return
    new(tree.mixin.Definition)(name, params, ruleset, cond, variadic);\n\n
    } else {\n\n
    parserInput.restore();\n\n
    }\n\n
    } else {\n\n
    parserInput.restore();\n\n
    }\n\n
    },\n\n
    \n\n
    ruleLookups: function() {\n\n
    let rule;\n\n
    let args;\n\n
    const
    lookups = [];\n\n
    if (parserInput.currentChar() !== '[') {\n\n
    return;\n\n
    }\n\n
    while (true) {\n\n
    parserInput.save();\n\n
    args = null;\n\n
    rule =
    this.lookupValue();\n\n
    if (!rule && rule !== '') {\n\n
    parserInput.restore();\n\n
    break;\n\n
    }\n\n
    lookups.push(rule);\n\n
    parserInput.forget();\n\n
    }\n\n
    if (lookups.length > 0) {\n\n
    return lookups;\n\n
    }\n\n
    },\n\n
    \n\n
    lookupValue: function() {\n\n
    parserInput.save();\n\n
    \n\n
    if (!parserInput.$char '['))
    {\n\n
    parserInput.restore();\n\n
    return;\n\n
    }\n\n
    \n\n
    const name =
    parserInput.$re(/^(?:[@$]{0,2})[_a-zA-Z0-9-]*); \n\n
    if (!parserInput.$char '[')) {\n\n
    parserInput.restore();\n\n
    return;\n\n
    } \n\n
    if (name || name === '') {\n\n
    parserInput.forget();\n\n
    return name;\n\n
    } \n\n
    \n\n
    parserInput.restore();\n\n
    }\n\n
    },\n\n
    /\n\n
    // Entities are the smallest recognized token,\n\n
    // and can be found inside a
    rule's value.\n\n
    /\n\n
    entity: function () {\n\n
    const entities = this.entities;\n\n
    \n\n
    return
    this.comment() || entities.literal() || entities.variable() || entities.url() ||\n\n
    entities.property() || entities.call()
    || entities.keyword() || this.mixin.call(true) ||\n\n
    entities.javascript();\n\n
    },\n\n
    \n\n
    /\n\n
    // A
    Declaration terminator. Note that we use `peek()` to check for `}`;\n\n
    // because the `block` rule will be

```

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expecting it, but we still need to make sure\n      // it's there, if ';' was omitted.\n      //\n      end: function ()
{\n      return parserInput.$char(';') || parserInput.peek(';');\n      },\n      //\n      // IE's alpha
function\n      //\n      // alpha(opacity=88)\n      //\n      ieAlpha: function () {\n      let
value;\n      // http://jsperf.com/case-insensitive-regex-vs-strtolower-then-regex/18\n      if
(!parserInput.$re(/^opacity=i)) { return; }\n      value = parserInput.$re(/^\d+/);\n      if (!value) {\n
      value = expect(parsers.entities.variable, 'Could
not parse alpha');\n      value = `@{${value.name.slice(1)}}`; \n      } \n      expectChar(';');\n
      return new tree.Quoted(", `alpha(opacity=${value})`);\n      },\n      //\n      // A Selector Element\n
      //\n      // div\n      // + h1\n      // #socks\n      // input[type="text"]\n      //\n
// Elements are the building blocks for Selectors,\n      // they are made out of a `Combinator` (see combinator
rule),\n      // and an element name, such as a tag a class, or `*`.\n      //\n      element: function () {\n
      let e;\n      let c;\n      let v;\n      const index = parserInput.i;\n      c =
this.combinator();\n      e = parserInput.$re(/^(?:\d+|\.\d+|\d+%)/) ||\n
      parserInput.$re(/^(?:[#?:(?:[\w-][^\x00-\x9f]|\[\(?:[A-Za-f0-9]{1,6}
?[\A-Za-f0-9])+\])\|)\| parserInput.$char('*') || parserInput.$char('&') || this.attribute() ||\n
      parserInput.$re(/^\([\^&()@]+\)/) || parserInput.$re(/^\[\#\:(?=@)/) ||\n      this.entities.variableCurly();\n
      if (!e) {\n      parserInput.save();\n      if (parserInput.$char('(')) {\n      if ((v =
this.selector(false)) && parserInput.$char(')')) {\n      e = new(tree.Paren)(v);\n
      parserInput.forget();\n      } else {\n      parserInput.restore('Missing closing \\\')\n
      } \n      } else {\n      parserInput.forget();\n      } \n      } \n      if (e) {\n
      return new(tree.Element)(c, e, e instanceof tree.Variable, index, fileInfo); \n      },\n      //\n      //
Combinators
      combine elements together, in a Selector.\n      //\n      // Because our parser isn't white-space sensitive,
special care\n      // has to be taken, when parsing the descendant combinator, ` `,\n      // as it's an empty
space. We have to check the previous character\n      // in the input, to see if it's a ` ` character. More info on
how\n      // we deal with this in *combinator.js*.\n      //\n      combinator: function () {\n      let c =
parserInput.currentChar();\n      if (c === '/') {\n      parserInput.save();\n      const
slashedCombinator = parserInput.$re(/^[a-z]+\/i);\n      if (slashedCombinator) {\n
      parserInput.forget();\n      return new(tree.Combinator)(slashedCombinator);\n      } \n
      parserInput.restore();\n      } \n      if (c === '>' || c === '+' ||
c === '~' || c === '|' || c === '^') {\n      parserInput.i++; \n      if (c === '^' &&
parserInput.currentChar() === '^') {\n      c = '^';\n      parserInput.i++; \n      } \n
      while (parserInput.isWhitespace()) { parserInput.i++; } \n      return new(tree.Combinator)(c);\n
      } else if (parserInput.isWhitespace(-1)) {\n      return new(tree.Combinator)(' '); \n      } else {\n
      return new(tree.Combinator)(null); \n      } \n      }, \n      //\n      // A CSS Selector\n      //
with less extensions e.g. the ability to extend and guard\n      //\n      // .class > div + h1\n      // li
a:hover\n      //\n      // Selectors are made out of one or more Elements, see above.\n      //\n
selector: function (isLess) {\n      const index
= parserInput.i;\n      let elements;\n      let extendList;\n      let c;\n      let e;\n      let
allExtends;\n      let when;\n      let condition;\n      isLess = isLess !== false;\n      while
((isLess && (extendList = this.extend())) || (isLess && (when = parserInput.$str('when')))) || (e = this.element())) {\n
      if (when) {\n      condition = expect(this.conditions, 'expected condition'); \n      } else
if (condition) {\n      error('CSS guard can only be used at the end of selector'); \n      } else if
(extendList) {\n      if (allExtends) {\n      allExtends = allExtends.concat(extendList);\n
      } else {\n      allExtends = extendList;\n      } \n      } else {\n
if (allExtends)
{ error('Extend can only be used at the end of selector'); } \n      c = parserInput.currentChar(); \n
      if (elements) {\n      elements.push(e); \n      } else {\n      elements = [ e

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];\n          }\n          e = null;\n          }\n          if (c === '{' || c === '}' || c === ';' || c ===
',' || c === ')') {\n          break;\n          }\n          }\n          if (elements) { return
new(tree.Selector)(elements, allExtends, condition, index, fileInfo); }\n          if (allExtends) { error('Extend must
be used to extend a selector, it cannot be used on its own'); }\n          },\n          selectors: function () {\n
let s;\n          let selectors;\n          while (true) {\n          s = this.selector();\n          if (!s) {\n
break;\n          }\n          if (selectors) {\n          selectors.push(s);\n          } else {\n
selectors = [ s ];\n          }\n          parserInput.commentStore.length = 0;\n          if
(s.condition && selectors.length > 1) {\n          error('"Guards are only currently allowed on a single
selector."');\n          }\n          if (!parserInput.$char(',')) { break; }\n          if (s.condition) {\n
error('"Guards are only currently allowed on a single selector."');\n          }\n
parserInput.commentStore.length = 0;\n          }\n          return selectors;\n          },\n          attribute:
function () {\n          if (!parserInput.$char '[')) { return; }\n          const entities = this.entities;\n
let key;\n          let val;\n          let op;\n          if (!(key = entities.variableCurly())) {\n          key = expect(/^(?:[_A-Za-z0-9-
\\*]*\\|\\)?(?:[_A-Za-z0-9-]|\\|\\|\\.)+/);\n          }\n          op = parserInput.$re(/^[-*$]?=/);\n          if (op)
{\n          val = entities.quoted() || parserInput.$re(/^([0-9]+%/)| parserInput.$re(/^([\\w-]+/)|
entities.variableCurly());\n          }\n          expectChar(']');\n          return new(tree.Attribute)(key, op,
val);\n          },\n          }\n          /\n          // The `block` rule is used by `ruleset` and `mixin.definition`.\n          // It's a
wrapper around the `primary` rule, with added `{}`.\n          /\n          block: function () {\n          let content;\n
if (parserInput.$char('{') && (content = this.primary()) && parserInput.$char('}')) {\n          return
content;\n          }\n          },\n          }\n          blockRuleset: function()
{\n          let block = this.block();\n          if (block) {\n          block = new tree.RuleSet(null, block);\n
}\n          return block;\n          },\n          }\n          detachedRuleset: function() {\n          let argInfo;\n
let params;\n          let variadic;\n          parserInput.save();\n          if (parserInput.$re(/^#[.##](/)) {\n
/*\n          * DR args currently only implemented for each() function, and not\n          * yet
settable as `@dr: #(@arg) {}`.\n          * This should be done when DRs are merged with mixins.\n
* See: https://github.com/less/less-meta/issues/16\n          */\n
argInfo = this.mixin.args(false);\n          params = argInfo.args;\n          variadic = argInfo.variadic;\n          if (!parserInput.$char(''))
{\n          parserInput.restore();\n          return;\n          }\n          }\n          const blockRuleset =
this.blockRuleset();\n          if (blockRuleset) {\n          parserInput.forget();\n          if (params) {\n
return new tree.mixin.Definition(null, params, blockRuleset, null, variadic);\n          }\n
return new tree.DetachedRuleset(blockRuleset);\n          }\n          parserInput.restore();\n          },\n          }\n
/\n          // div, .class, body > p {...}\n          /\n          ruleset: function () {\n          let selectors;\n
let rules;\n          let debugInfo;\n          parserInput.save();\n          if (context.dumpLineNumbers) {\n
debugInfo = getDebugInfo(parserInput.i);\n          }\n          selectors = this.selectors();\n
if (selectors
&& (rules = this.block())) {\n          parserInput.forget();\n          const ruleset =
new(tree.RuleSet)(selectors, rules, context.strictImports);\n          if (context.dumpLineNumbers) {\n
ruleset.debugInfo = debugInfo;\n          }\n          return ruleset;\n          } else {\n
parserInput.restore();\n          }\n          },\n          }\n          declaration: function () {\n          let name;\n          let
value;\n          const index = parserInput.i;\n          let hasDR;\n          const c =
parserInput.currentChar();\n          let important;\n          let merge;\n          let isVariable;\n          if
(c === '.' || c === '#' || c === '&' || c === ':') { return; }\n          parserInput.save();\n          name =
this.variable() || this.ruleProperty();\n          if (name) {\n          isVariable = typeof name === 'string';\n          if (isVariable) {\n
value =
this.detachedRuleset();\n          if (value) {\n          hasDR = true;\n          }\n

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}\n\n        parserInput.commentStore.length = 0;\n        if (!value) {\n            // a name
returned by this.ruleProperty() is always an array of the form:\n            // [string-1, ..., string-n, \"\"] or
[\"string-1, ..., string-n, \"+\"]\n            // where each item is a tree.Keyword or tree.Variable\nmerge = !isVariable && name.length > 1 && name.pop().value;\n        // Custom property values get
permissive parsing\n        if (name[0].value && name[0].value.slice(0, 2) === '--') {\n
value = this.permissiveValue();\n        }\n        // Try to store values as anonymous\n        // If we need the value later we'll re-parse it in
ruleset.parseValue\n        else {\n            value = this.anonymousValue();\n        }\n        if (value) {\n            parserInput.forget();\n            // anonymous values absorb the end
';' which is required for them to work\n            return new(tree.Declaration)(name, value, false, merge,
index, fileInfo);\n        }\n        if (!value) {\n            value = this.value();\n        }\n        if (value) {\n            important = this.important();\n        } else if
(isVariable) {\n            // As a last resort, try permissiveValue\n            value =
this.permissiveValue();\n        }\n        if (value && (this.end() || hasDR)) {\n            parserInput.forget();\n            return new(tree.Declaration)(name, value, important, merge, index, fileInfo);\n        } else
{\n            parserInput.restore();\n        }\n        } else {\n            parserInput.restore();\n        }\n        },\n        anonymousValue: function () {\n            const index = parserInput.i;\n            const
match = parserInput.$re(/^([\^#@\\$+\\|\"*`(;{}-]*););\n            if (match) {\n                return
new(tree.Anonymous)(match[1], index);\n            },\n            /**\n             * Used for custom
properties, at-rules, and variables (as fallback)\n             * Parses almost anything inside of {} [] () \"\" blocks\n
             * until it reaches outer-most tokens.\n             * \n
             * First, it will try to parse comments and entities to reach\n             * the end. This is mostly like the
Expression parser except no\n             * math is allowed.\n             */\n            permissiveValue: function
(untilTokens) {\n                let i;\n                let e;\n                let done;\n                let value;\n                const tok =
untilTokens || ';';\n                const index = parserInput.i;\n                const result = [];\n                function
testCurrentChar() {\n                    const char = parserInput.currentChar();\n                    if (typeof tok === 'string')
{\n                        return char === tok;\n                    } else {\n                        return tok.test(char);\n                    }\n                }\n                if (testCurrentChar()) {\n                    return;\n                }\n                value = [];\n                do
{\n                    e = this.comment();\n                    if (e) {\n                        value.push(e);\n                        continue;\n                    }\n                    e =
this.entity();\n                    if (e) {\n                        value.push(e);\n                    }\n                } while (e);\n                done = testCurrentChar();\n                if (value.length > 0) {\n                    value = new(tree.Expression)(value);\n                    if (done) {\n                        return value;\n                    }\n                    else {\n                        result.push(value);\n                    }\n                    // Preserve space before $parseUntil as it will not\n                    if
(parserInput.prevChar() === ' ') {\n                        result.push(new tree.Anonymous(' ', index));\n                    }\n                    parserInput.save();\n                    value = parserInput.$parseUntil(tok);\n                    if (value) {\n                        if (typeof value === 'string') {\n                            error('Expected `${value}`, 'Parse');\n                        }\n                        if (value.length === 1 && value[0] === ' ') {\n                            parserInput.forget();\n                            return
new tree.Anonymous("", index);\n                        }\n                        let item;\n                        for (i = 0; i < value.length; i++)
{\n                            item = value[i];\n                            if (Array.isArray(item)) {\n                                // Treat actual quotes
as normal quoted values\n                                result.push(new tree.Quoted(item[0], item[1], true, index, fileInfo));\n                            }\n                            else {\n                                if (i === value.length - 1) {\n                                    item =
item.trim();\n                                }\n                                // Treat like quoted values, but replace vars like unquoted
expressions\n                                const quote = new tree.Quoted("\\", item, true, index, fileInfo);\n                                quote.variableRegex = /@([\w-]+)/g;\n                                quote.propRegex = /\$([\w-]+)/g;\n                                result.push(quote);\n                            }\n                        }\n                        parserInput.forget();\n                        return new

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tree.Expression(result, true);\n        }\n        parserInput.restore();\n        },\n\n        /\n        // An
@import atrule\n        /\n        // @import \"lib\";\n        /\n        // Depending on our environment,
importing is done differently:\n        // In the browser, it's an XHR request, in Node, it would be a\n        // file-
system operation. The function used for importing is\n        // stored in `import`, which we pass to the Import
constructor.\n        /\n        'import': function () {\n
    let path;\n        let features;\n        const index = parserInput.i;\n        const dir =
parserInput.$re(/^@import?\s+/);\n        if (dir) {\n            const options = (dir ? this.importOptions() :
null) || {};\n            if ((path = this.entities.quoted() || this.entities.url())) {\n                features =
this.mediaFeatures();\n                if (!parserInput.$char(';')) {\n                    parserInput.i = index;\n                    error('missing semi-colon or unrecognised media features on import');\n                }\n                features = features && new(tree.Value)(features);\n                return new(tree.Import)(path, features, options,
index, fileInfo);\n            }\n            else {\n                parserInput.i = index;\n                error('malformed import statement');\n            }\n        }\n        },\n\n        importOptions: function() {\n            let o;\n            const options = {};\n            let optionName;\n            let value;\n            // list of options, surrounded by parens\n            if
(!parserInput.$char('(')) { return null; }\n            do {\n                o = this.importOption();\n                if (o)
{\n                    optionName = o;\n                    value = true;\n                    switch (optionName) {\n
                        case 'css':\n                            optionName = 'less';\n                            value = false;\n
                        break;\n                        case 'once':\n                            optionName = 'multiple';\n                            value =
false;\n                            break;\n                    }\n                    options[optionName] = value;\n                }\n                if (!parserInput.$char(',')) { break; }\n            } while (o);\n            expectChar(')');\n            return options;\n        },\n\n        importOption: function() {\n            const opt =
parserInput.$re(/^(<less|css|multiple|once|inline|reference|optional|>)/);\n            if (opt) {\n                return
opt[1];\n            }\n        },\n\n        mediaFeature: function () {\n            const entities = this.entities;\n            const nodes = [];\n            let e;\n            let p;\n            parserInput.save();\n            do {\n                e
= entities.keyword() || entities.variable() || entities.mixinLookup();\n                if (e) {\n                    nodes.push(e);\n                } else if (parserInput.$char('(')) {\n                    p = this.property();\n                    e
= this.value();\n                }\n                if (parserInput.$char('')) {\n                    if (p && e) {\n
                        nodes.push(new(tree.Paren)(new(tree.Declaration)(p, e, null, null, parserInput.i, fileInfo, true)));\n                    }\n                    else if (e) {\n                        nodes.push(new(tree.Paren)(e));\n                    }\n                    else {\n
                        error(\"badly formed media feature definition\");\n                    }\n                    else {\n
                        error('Missing closing \\)\", 'Parse');\n                    }\n                } while (e);\n            }\n            parserInput.forget();\n            if (nodes.length > 0) {\n                return new(tree.Expression)(nodes);\n            }\n        },\n\n        mediaFeatures: function () {\n            const entities = this.entities;\n            const
features = [];\n            let e;\n            do {\n                e = this.mediaFeature();\n                if (e) {\n                    features.push(e);\n                }\n                if (!parserInput.$char(',')) { break; }\n            } else {\n                e = entities.variable() ||
entities.mixinLookup();\n                if (e) {\n                    features.push(e);\n                }\n                if
(!parserInput.$char(',')) { break; }\n            }\n        } while (e);\n        return
features.length > 0 ? features : null;\n    },\n\n    media: function () {\n        let features;\n        let
rules;\n        let media;\n        let debugInfo;\n        const index = parserInput.i;\n        if
(context.dumpLineNumbers) {\n            debugInfo = getDebugInfo(index);\n        }\n        parserInput.save();\n        if (parserInput.$str('@media'))\n        {\n            features = this.mediaFeatures();\n            rules = this.block();\n            if (!rules) {\n
                error('media definitions require block statements after any features');\n            }\n            parserInput.forget();\n            media = new(tree.Media)(rules, features, index, fileInfo);\n            if
(context.dumpLineNumbers) {\n                media.debugInfo = debugInfo;\n            }\n            return

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media;\n          }\n          parserInput.restore();\n          },\n          /\n          // A @plugin directive,
used to import plugins dynamically.\n          /\n          // @plugin (args) "lib";\n          /\n          plugin:
function () {\n          let path;\n          let args;\n          let options;\n          const index = parserInput.i;\n
          const dir = parserInput.$re(/^@plugin?\s+\/);\n          if (dir) {\n          args = this.pluginArgs();\n          if (args) {\n          options = {\n          pluginArgs: args,\n          isPlugin:
true\n          };\n          }\n          else {\n          options = { isPlugin: true };\n
}\n          if ((path = this.entities.quoted() || this.entities.url())) {\n          if (!parserInput.$char(';'))\n          {\n          parserInput.i = index;\n          error('missing semi-colon on @plugin');\n
}\n          return new(tree.Import)(path, null, options, index, fileInfo);\n          }\n          else {\n
          parserInput.i = index;\n          error('malformed @plugin statement');\n
          }\n          }\n          },\n          pluginArgs: function() {\n          // list of options, surrounded by
parens\n          parserInput.save();\n          if (!parserInput.$char('(')) {\n          parserInput.restore();\n
          return null;\n          }\n          const args = parserInput.$re(/^\\s*([^\s;]+)\\s*\/);\n          if
(args[1]) {\n          parserInput.forget();\n          return args[1].trim();\n          }\n          else {\n
          parserInput.restore();\n          return null;\n          }\n          },\n          /\n          // A CSS
AtRule\n          /\n          // @charset "utf-8";\n          /\n          atrule: function () {\n          const index =
parserInput.i;\n          let name;\n          let value;\n          let rules;\n          let
nonVendorSpecificName;\n
          let hasIdentifier;\n          let hasExpression;\n          let hasUnknown;\n          let hasBlock =
true;\n          let isRooted = true;\n          if (parserInput.currentChar() !== '@') { return; }\n          value =
this['import']() || this.plugin() || this.media();\n          if (value) {\n          return value;\n
}\n          parserInput.save();\n          name = parserInput.$re(/^@[a-z-]+\/);\n          if (!name) {\n
return; }\n          nonVendorSpecificName = name;\n          if (name.charAt(1) === '-' && name.indexOf('-',
2) > 0) {\n          nonVendorSpecificName = `@${name.slice(name.indexOf('-', 2) + 1)}`;\n          }\n          switch
(nonVendorSpecificName) {\n          case '@charset':\n          hasIdentifier = true;\n
          hasBlock = false;\n          break;\n
          case '@namespace':\n          hasExpression = true;\n          hasBlock = false;\n
          break;\n          case '@keyframes':\n          case '@counter-style':\n          hasIdentifier =
true;\n          break;\n          case '@document':\n          case '@supports':\n          hasUnknown = true;\n
          isRooted = false;\n          break;\n          default:\n          hasUnknown = true;\n          break;\n
}\n          parserInput.commentStore.length = 0;\n          if (hasIdentifier) {\n          value = this.entity();\n          if
(!value) {\n          error(`expected
${name} identifier`);\n          }\n          } else if (hasExpression) {\n          value = this.expression();\n
          if (!value) {\n          error(`expected ${name} expression`);\n          }\n          } else if
(hasUnknown) {\n          value = this.permissiveValue(/^[\s;]+\/);\n          hasBlock =
(parserInput.currentChar() === '{');\n          if (!value) {\n          if (!hasBlock &&
parserInput.currentChar() !== ';') {\n          error(`${name} rule is missing block or ending semi-
colon`);\n          }\n          }\n          else if (!value.value) {\n          value = null;\n
}\n          }\n          }\n          if (hasBlock) {\n          rules = this.blockRuleset();\n
}\n          }\n          if (rules || (!hasBlock && value && parserInput.$char(';'))) {\n          parserInput.forget();\n
          return
new(tree.AtRule)(name, value, rules, index, fileInfo,\n          context.dumpLineNumbers ? getDebugInfo(index) : null,\n          isRooted\n          );\n
}\n          parserInput.restore('at-rule options not recognised');\n          },\n          /\n          // A Value is a
comma-delimited list of Expressions\n          /\n          // font-family: Baskerville, Georgia, serif;\n          /\n
          // In a Rule, a Value represents everything after the `:`,\n          // and before the `;`,\n          /\n          value:
function () {\n          let e;\n          const expressions = [];\n          const index = parserInput.i;\n          do {\n
          e = this.expression();\n          if (e) {\n          expressions.push(e);\n          if

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(!parserInput.$char(',') { break; } \n          } \n          } while (e); \n \n          if (expressions.length > 0) { \n
    return new(tree.Value)(expressions, index); \n          } \n          }, \n          important: function () { \n
if (parserInput.currentChar() === '!') { \n          return parserInput.$re(/^! *important/); \n          } \n
}, \n          sub: function () { \n          let a; \n          let e; \n          parserInput.save(); \n          if
(parserInput.$char('(')) { \n          a = this.addition(); \n          if (a && parserInput.$char('(')) { \n
    parserInput.forget(); \n          e = new(tree.Expression)([a]); \n          e.parens = true; \n
return e; \n          } \n          parserInput.restore('Expected \\') \n          return; \n          } \n
    parserInput.restore(); \n          }, \n          multiplication: function () { \n          let m; \n          let
a; \n          let op; \n          let operation; \n          let isSpaced; \n          m = this.operand(); \n          if
(m) { \n          isSpaced = parserInput.isWhitespace(-1); \n          while (true) { \n          if
(parserInput.peek(/^[*\/]) { \n          break; \n          } \n          parserInput.save(); \n
op = parserInput.$char('/') || parserInput.$char('*') || parserInput.$str('./'); \n          if (!op) {
parserInput.forget(); break; } \n          a = this.operand(); \n          if (!a) { parserInput.restore();
break; } \n          parserInput.forget(); \n          m.parensInOp = true; \n          a.parensInOp
= true; \n          operation = new(tree.Operation)(op, [operation || m, a], isSpaced); \n          isSpaced
= parserInput.isWhitespace(-1); \n
          } \n          return operation || m; \n          } \n          }, \n          addition: function () { \n
let m; \n          let a; \n          let op; \n          let operation; \n          let isSpaced; \n          m =
this.multiplication(); \n          if (m) { \n          isSpaced = parserInput.isWhitespace(-1); \n          while
(true) { \n          op = parserInput.$re(/^[+]\s+/) || (!isSpaced && (parserInput.$char('+') ||
parserInput.$char('-'))); \n          if (!op) { \n          break; \n          } \n          a =
this.multiplication(); \n          if (!a) { \n          break; \n          } \n
m.parensInOp = true; \n          a.parensInOp = true; \n          operation = new(tree.Operation)(op,
[operation
|| m, a], isSpaced); \n          isSpaced = parserInput.isWhitespace(-1); \n          } \n          return
operation || m; \n          } \n          }, \n          conditions: function () { \n          let a; \n          let b; \n
const index = parserInput.i; \n          let condition; \n          a = this.condition(true); \n          if (a) { \n
while (true) { \n          if (!parserInput.peek(/^[*\/]\s*(not\s*)?\s*(/ || !parserInput.$char(',')) { \n
break; \n          } \n          b = this.condition(true); \n          if (!b) { \n
break; \n          } \n          condition = new(tree.Condition)('or', condition || a, b, index); \n
} \n          return condition || a; \n          } \n          }, \n          condition: function
(needsParens) { \n          let result; \n          let logical; \n          let next; \n          function or() { \n
return parserInput.$str('or'); \n          } \n          result = this.conditionAnd(needsParens); \n          if
(!result) { \n          return ; \n          } \n          logical = or(); \n          if (logical) { \n          next =
this.condition(needsParens); \n          if (next) { \n          result = new(tree.Condition)(logical, result,
next); \n          } else { \n          return ; \n          } \n          } \n          return result; \n
}, \n          conditionAnd: function (needsParens) { \n          let result; \n          let logical; \n          let
next; \n          const self = this; \n          function insideCondition() { \n          const cond =
self.negatedCondition(needsParens)
|| self.parenthesisCondition(needsParens); \n          if (!cond && !needsParens) { \n          return
self.atomicCondition(needsParens); \n          } \n          return cond; \n          } \n          function
and() { \n          return parserInput.$str('and'); \n          } \n          result = insideCondition(); \n
if (!result) { \n          return ; \n          } \n          logical = and(); \n          if (logical) { \n
next = this.conditionAnd(needsParens); \n          if (next) { \n          result =
new(tree.Condition)(logical, result, next); \n          } else { \n          return ; \n          } \n
} \n          return result; \n          }, \n          negatedCondition: function (needsParens) { \n          if
(parserInput.$str('not')) { \n

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const result = this.parenthesisCondition(needsParens);\n
result.negate = !result.negate;\n
parenthesisCondition: function (needsParens) {\n
  let body;\n
  (!body) {\n
    (!parserInput.$char('=')) {\n
      parserInput.forget();\n
      if (!parserInput.$str('='))\n
      {\n
        tryConditionFollowedByParenthesis(this);\n
        return body;\n
        parserInput.restore();\n
        parserInput.forget();\n
        const entities = this.entities;\n
        let c;\n
        function cond() {\n
          entities.mixinLookup();\n
          {\n
            if (parserInput.$char('>')) {\n
              '>=';\n
            } else {\n
              (parserInput.$char('<')) {\n
                else {\n
                  if (parserInput.$char('>')) {\n
                    (parserInput.$char('<'))\n
                    {\n
                      }\n
                    }\n
                    new(tree.Condition)(op, a, b, index, false);\n
                    }\n
                    }\n
                    index, false);\n
                    function () {\n
                      {\n
                        entities.quoted(true) || entities.colorKeyword() ||\n
                        o.parensInOp = true;\n
                      },\n
                      Entities.\n
                      {\n
                        index = parserInput.i;\n
                        entities.push(e);\n
                        if (e instanceof tree.Comment) {\n
                          entities.push(e);\n
                          that here\n
                        }\n
                        }\n
                        return new(tree.Expression)(entities);\n
                        const name = parserInput.$re(/^(\\*?-?[a-zA-Z0-9-]+)\\s*/);

```

```

    }\n    },\n    ruleProperty: function () {\n        let name = [];\n        const index = [];\n        let s;\n        let k;\n        parserInput.save();\n        const simpleProperty =\n        parserInput.$re(/^([\_a-zA-Z0-9-]+\s*?)/);\n        if (simpleProperty) {\n            name =\n            [new(tree.Keyword)(simpleProperty[1])];\n            parserInput.forget();\n            return name;\n        }\n        function match(re) {\n            const i = parserInput.i;\n            const chunk =\n            parserInput.$re(re);\n            if (chunk) {\n                index.push(i);\n                return name.push(chunk[1]);\n            }\n            match(/^(\s*?)/);\n        }\n        while (true) {\n            if (!match(/^((?:[\w-]+)(?:[@\$]\{[\w-]+\})/)) {\n                break;\n            }\n            if ((name.length > 1) && match(/^((?:\+|\_|\+)?)\s*?/)) {\n                parserInput.forget();\n                // at last, we have the complete match now. move forward,\n                //\n                convert name particles to tree objects and return:\n                if (name[0] === '') {\n                    name.shift();\n                }\n                for (k = 0; k < name.length; k++) {\n                    s =\n                    name[k];\n                    name[k] = (s.charAt(0) !== '@' && s.charAt(0) !== '$') ?\n                    new(tree.Keyword)(s) :\n                    (s.charAt(0) === '@' ?\n                    new(tree.Variable)('@${s.slice(2, -1)}', index[k], fileInfo) :\n                    new(tree.Property)('${s.slice(2, -1)}', index[k], fileInfo));\n                }\n                return name;\n            }\n            parserInput.restore();\n        }\n    };\n};\n\nParser.serializeVars = vars => {\n    let s =\n    '';\n    for (const name in vars) {\n        if (Object.hasOwnProperty.call(vars, name)) {\n            const value =\n            vars[name];\n            s += `${((name[0] === '@') ? '@' : '') + name}: ${value}${(String(value).slice(-1) === ';') ? '' :\n            ';'}`;\n        }\n    }\n    return s;\n};\n\nexport default Parser;\n\nimport Anonymous from\n'./tree/anonymous';\nimport Keyword from './tree/keyword';\n\nfunction boolean(condition) {\n    return condition ?\n    Keyword.True : Keyword.False;\n}\n\n/**\n * Functions with evalArgs set to false are sent context\n * as the first\n * argument.\n */\nfunction If(context, condition, trueValue, falseValue) {\n    return condition.eval(context) ?\n    trueValue.eval(context) :\n    (falseValue ? falseValue.eval(context) : new Anonymous);\n}\n\nIf.evalArgs =\nfalse;\n\nexport default {\n    boolean, 'if': If\n};\n\nimport Dimension from './tree/dimension';\nimport Color from\n'./tree/color';\nimport Quoted from './tree/quoted';\nimport Anonymous from './tree/anonymous';\n\nlet\n    colorFunctions;\n\nfunction clamp(val) {\n    return Math.min(1, Math.max(0, val));\n}\n\nfunction hsla(origColor,\n    hsl) {\n    const color = colorFunctions.hsla(hsl.h, hsl.s, hsl.l, hsl.a);\n    if (color) {\n        if (origColor.value && \n        /^rgb|hsl/.test(origColor.value)) {\n            color.value = origColor.value;\n        } else {\n            color.value\n            = 'rgb';\n        }\n        return color;\n    }\n}\n\nfunction toHSL(color) {\n    if (color.toHSL) {\n        return\n        color.toHSL();\n    } else {\n        throw new Error('Argument cannot be evaluated\n        to a color');\n    }\n}\n\nfunction toHSV(color) {\n    if (color.toHSV) {\n        return color.toHSV();\n    } else {\n        throw new Error('Argument cannot be evaluated\n        to a color');\n    }\n}\n\nfunction number(n) {\n    if (n instanceof\n    Dimension) {\n        return parseFloat(n.unit.is('%') ? n.value / 100 : n.value);\n    } else if (typeof n === 'number')\n    {\n        return n;\n    } else {\n        throw {\n            type: 'Argument',\n            message: 'color functions take\n            numbers as parameters'\n        };\n    }\n}\n\nfunction scaled(n, size) {\n    if (n instanceof Dimension &&\n    n.unit.is('%')) {\n        return parseFloat(n.value * size / 100);\n    } else {\n        return number(n);\n    }\n}\n\nconst colorFunctions = {\n    rgb: function (r, g, b) {\n        const color = colorFunctions.rgba(r, g, b, 1.0);\n        if\n        (color) {\n            color.value = 'rgb';\n            return color;\n        }\n    },\n    rgba: function (r, g, b, a) {\n        try\n        {\n            if (r instanceof Color) {\n                if (g) {\n                    a = number(g);\n                } else {\n                    a =\n                    r.alpha;\n                }\n                return new Color(r.rgb, a, 'rgba');\n            }\n            const rgb = [r, g, b].map(c =>\n            scaled(c, 255));\n            a = number(a);\n            return new Color(rgb, a, 'rgba');\n        }\n        catch (e) {\n        }\n    },\n    hsl: function (h, s, l) {\n        const color = colorFunctions.hsla(h, s, l, 1.0);\n        if (color) {\n            color.value =\n            'hsl';\n            return color;\n        }\n    },\n    hsla: function (h, s, l, a) {\n        try {\n            if (h instanceof Color)\n            {\n                if (s) {\n                    a = number(s);\n                } else {\n                    a = h.alpha;\n                }\n                return new Color(h.rgb, a, 'hsla');\n            }\n        }\n        let m1;\n        let m2;\n        function hue(h) {\n

```

```

h
= h < 0 ? h + 1 : (h > 1 ? h - 1 : h);
}
else if (h * 2 < 1) {
return m1 + (m2 - m1) * (2 / 3 - h) * 6;
}
else {
return m1;
}
}
h = (number(h) % 360) / 360;
s = clamp(number(s));
l = clamp(number(l));
a = clamp(number(a));
m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1 * s;
m1 = 1 * 2 - m2;
const rgb = [
hue(h + 1 / 3) * 255,
hue(h) * 255,
hue(h - 1 / 3) * 255
];
a = number(a);
return new Color(rgb, a, 'hsla');
}
catch (e) {}
},
hsv: function(h, s, v) {
return colorFunctions.hsva(h, s, v, 1.0);
},
hsva: function(h, s, v, a) {
h = ((number(h) % 360) / 360) * 360;
s = number(s);
v = number(v);
a = number(a);
let i;
let f;
i = Math.floor((h / 60) % 6);
f = (h / 60) - i;
const vs = [
v * (1 - s),
v * (1 - f * s),
v * (1 - (1 - f) * s)
];
const perm = [[0, 3, 1],
[2, 0, 1],
[1, 0, 3],
[1, 2, 0],
[3, 1, 0],
[0, 1, 2]];
return colorFunctions.rgba(vs[perm[i][0]] * 255, vs[perm[i][1]] * 255, vs[perm[i][2]] * 255, a);
},
hue: function (color) {
return new Dimension(toHSL(color).h);
},
saturation: function (color) {
return new Dimension(toHSL(color).s * 100, '%');
},
lightness: function (color) {
return new Dimension(toHSL(color).l * 100, '%');
},
hsvhue: function (color) {
return new Dimension(toHSV(color).h);
},
hsvsaturation: function (color) {
return new Dimension(toHSV(color).s * 100, '%');
},
hsvvalue: function (color) {
return new Dimension(toHSV(color).v * 100, '%');
},
red: function (color) {
return new Dimension(color.rgb[0]);
},
green: function (color) {
return new Dimension(color.rgb[1]);
},
blue: function (color) {
return new Dimension(color.rgb[2]);
},
alpha: function (color) {
return new Dimension(toHSL(color).a);
},
luma: function (color) {
return new Dimension(color.luma() * color.alpha * 100, '%');
},
luminance: function (color) {
const luminance = (0.2126 * color.rgb[0] / 255) + (0.7152 * color.rgb[1] / 255) + (0.0722 * color.rgb[2] / 255);
return new Dimension(luminance * color.alpha * 100, '%');
},
saturate: function (color, amount, method) {
// filter: saturate(3.2); // should be kept as is, so check for color
if (!color.rgb) {
return null;
}
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.s += hsl.s * amount.value / 100;
}
else {
hsl.s += amount.value / 100;
}
hsl.s = clamp(hsl.s);
return hsla(color, hsl);
},
desaturate: function (color, amount, method) {
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.s -= hsl.s * amount.value / 100;
}
else {
hsl.s -= amount.value / 100;
}
hsl.s = clamp(hsl.s);
return hsla(color, hsl);
},
lighten: function (color, amount, method) {
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.l += hsl.l * amount.value / 100;
}
else {
hsl.l += amount.value / 100;
}
hsl.l = clamp(hsl.l);
return hsla(color, hsl);
},
darken: function (color, amount, method) {
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.l -= hsl.l * amount.value / 100;
}
else {
hsl.l -= amount.value / 100;
}
hsl.l = clamp(hsl.l);
return hsla(color, hsl);
},
fadein: function (color, amount, method) {
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.a += hsl.a * amount.value / 100;
}
else {
hsl.a += amount.value / 100;
}
hsl.a = clamp(hsl.a);
return hsla(color, hsl);
},
fadeout: function (color, amount, method) {
const hsl = toHSL(color);
if (typeof method !== 'undefined' && method.value === 'relative') {
hsl.a -= hsl.a * amount.value / 100;
}
else {
hsl.a -= amount.value / 100;
}
hsl.a = clamp(hsl.a);
return hsla(color, hsl);
},
fade: function (color, amount) {
const hsl = toHSL(color);
hsl.a = amount.value / 100;
hsl.a = clamp(hsl.a);
return hsla(color, hsl);
},
spin: function (color, amount) {
const hsl = toHSL(color);
const hue = (hsl.h + amount.value) % 360;
hsl.h = hue < 0 ? 360 + hue : hue;
return hsla(color, hsl);
},
}

```



```

//\n // Copyright (c) 2006-2009 Hampton Catlin, Natalie Weizenbaum, and Chris Eppstein\n // http://sass-
lang.com\n //\n mix: function (color1, color2, weight) {\n if (!weight) {\n weight = new
Dimension(50);\n }\n const p = weight.value / 100.0;\n const w = p * 2 - 1;\n const a = toHSL(color1).a -
toHSL(color2).a;\n const w1 = (((w * a === -1) ? w : (w + a) / (1 + w * a)) + 1) / 2.0;\n const w2 = 1 -
w1;\n const rgb = [color1.rgb[0] * w1 + color2.rgb[0] * w2,\n color1.rgb[1] * w1 + color2.rgb[1] *
w2,\n color1.rgb[2] * w1 + color2.rgb[2] * w2];\n const alpha = color1.alpha * p + color2.alpha * (1 -
p);\n return new Color(rgb, alpha);\n },\n greyscale: function (color) {\n return
colorFunctions.desaturate(color, new Dimension(100));\n },\n contrast: function (color, dark, light, threshold)
{\n // filter: contrast(3.2);\n // should be kept as is, so check for color\n if (!color.rgb) {\n return
null;\n }\n if (typeof light === 'undefined') {\n light = colorFunctions.rgb(255, 255, 255, 1.0);\n }\n if (typeof dark === 'undefined')
{\n dark = colorFunctions.rgb(0, 0, 0, 1.0);\n }\n // Figure out which is actually light and dark:\n if (dark.luma() > light.luma()) {\n const t = light;\n light = dark;\n dark = t;\n }\n if
(typeof threshold === 'undefined') {\n threshold = 0.43;\n } else {\n threshold =
number(threshold);\n }\n if (color.luma() < threshold) {\n return light;\n } else {\n return
dark;\n }\n },\n // Changes made in 2.7.0 - Reverted in 3.0.0\n // contrast: function (color, color1, color2,
threshold) {\n // // Return which of `color1` and `color2` has the greatest contrast with `color`\n // //
according to the standard WCAG contrast ratio calculation.\n // // http://www.w3.org/TR/WCAG20/#contrast-
ratiodef\n // // The threshold param is no longer used, in line with SASS.\n // // filter: contrast(3.2);\n
// // should be kept as is, so check for color\n // if (!color.rgb) {\n // return null;\n // }\n // if
(typeof color1 === 'undefined') {\n // color1 = colorFunctions.rgb(0, 0, 0, 1.0);\n // }\n // if (typeof
color2 === 'undefined') {\n // color2 = colorFunctions.rgb(255, 255, 255, 1.0);\n // }\n // var
contrast1, contrast2;\n // var luma = color.luma();\n // var luma1 = color1.luma();\n // var luma2 =
color2.luma();\n // // Calculate contrast ratios for each color\n // if (luma > luma1) {\n // contrast1 =
(luma + 0.05) / (luma1 + 0.05);\n // } else {\n // contrast1 = (luma1 + 0.05) / (luma + 0.05);\n // }\n
// if (luma > luma2) {\n // contrast2 = (luma + 0.05) / (luma2 + 0.05);\n // } else {\n // contrast2
= (luma2 + 0.05) / (luma + 0.05);\n // }\n // if (contrast1 > contrast2)
{\n // return color1;\n // } else {\n // return color2;\n // }\n // },\n argb: function (color) {\n
return new Anonymous(color.toARGB());\n },\n color: function(c) {\n if ((c instanceof Quoted) &&\n
(/^#[A-Fa-f0-9]{8}|[A-Fa-f0-9]{6}|[A-Fa-f0-9]{3,4})$/i.test(c.value)) {\n const val = c.value.slice(1);\n
return new Color(val, undefined, `#${val}`);\n }\n if ((c instanceof Color) || (c =
Color.fromKeyword(c.value))) {\n c.value = undefined;\n return c;\n }\n throw {\n
type: 'Argument',\n message: 'argument must be a color keyword or 3|4|6|8 digit hex e.g. #FFF'\n }\n
},\n tint: function(color, amount) {\n return colorFunctions.mix(colorFunctions.rgb(255, 255, 255), color,
amount);\n },\n shade: function(color, amount) {\n return colorFunctions.mix(colorFunctions.rgb(0, 0, 0),
color,
amount);\n }\n};\n\nexport default colorFunctions;\n", "import Color from '../tree/color';\n\n// Color Blending\n//
ref: http://www.w3.org/TR/compositing-1\n\nfunction colorBlend(mode, color1, color2) {\n const ab =
color1.alpha;\n // result\n\n let // backdrop\n cb;\n\n const as = color2.alpha;\n\n let // source\n
cs;\n\n let ar;\n let cr;\n const r = [];\n ar = as + ab * (1 - as);\n for (let i = 0; i < 3; i++) {\n cb =
color1.rgb[i] / 255;\n cs = color2.rgb[i] / 255;\n cr = mode(cb, cs);\n if (ar) {\n cr = (as * cs + ab
* (cb -\n as * (cb + cs - cr))) / ar;\n }\n r[i] = cr * 255;\n }\n\n return new Color(r,
ar);\n}\n\nconst colorBlendModeFunctions = {\n multiply: function(cb, cs) {\n return cb * cs;\n },\n
screen: function(cb, cs) {\n return cb + cs - cb * cs;\n },\n overlay: function(cb, cs) {\n cb *= 2;\n
return (cb
<= 1) ?\n colorBlendModeFunctions.multiply(cb, cs) :\n colorBlendModeFunctions.screen(cb - 1,
cs);\n },\n softlight: function(cb, cs) {\n let d = 1;\n let e = cb;\n if (cs > 0.5) {\n e = 1;\n
}

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d = (cb > 0.25) ? Math.sqrt(cb)\n      : ((16 * cb - 12) * cb + 4) * cb;\n    }\n    return cb - (1 - 2 * cs) * e
* (d - cb);\n  },\n  highlight: function(cb, cs) {\n    return colorBlendModeFunctions.overlay(cs, cb);\n  },\n  difference: function(cb, cs) {\n    return Math.abs(cb - cs);\n  },\n  exclusion: function(cb, cs) {\n    return cb
+ cs - 2 * cb * cs;\n  },\n  // non-w3c functions:\n  average: function(cb, cs) {\n    return (cb + cs) / 2;\n
},\n  negation: function(cb, cs) {\n    return 1 - Math.abs(cb + cs - 1);\n  };\n}\n\nfor (const f in
colorBlendModeFunctions) {\n  if (colorBlendModeFunctions.hasOwnProperty(f)) {\n    colorBlend[f] =
colorBlend.bind(null,
colorBlendModeFunctions[f]);\n  }\n}\n\nexport default colorBlend;\n", "import Comment from
'../tree/comment';\nimport Node from '../tree/node';\nimport Dimension from '../tree/dimension';\nimport Declaration
from '../tree/declaration';\nimport Expression from '../tree/expression';\nimport Ruleset from '../tree/ruleset';\nimport
Selector from '../tree/selector';\nimport Element from '../tree/element';\nimport Quote from '../tree/quoted';\n\nconst
getItemsFromNode = node => {\n  // handle non-array values as an array of length 1\n  // return 'undefined' if
index is invalid\n  const items = Array.isArray(node.value) ?\n    node.value : Array(node);\n  \n  return
items;\n};\n\nexport default {\n  _SELF: function(n) {\n    return n;\n  },\n  extract: function(values, index) {\n
  // (1-based index)\n  index = index.value - 1;\n  \n  return getItemsFromNode(values)[index];\n  },\n  length: function(values) {\n    return new Dimension(getItemsFromNode(values).length);\n
},\n  /**\n   * Creates a Less list of incremental values.\n   * Modeled after Lodash's range function, also exists
natively in PHP\n   * @param {Dimension} [start=1]\n   * @param {Dimension} end - e.g. 10 or 10px -
unit is added to output\n   * @param {Dimension} [step=1]\n   */\n  range: function(start, end, step) {\n    let
from;\n    let to;\n    let stepValue = 1;\n    const list = [];\n    if (end) {\n      to = end;\n      from =
start.value;\n      if (step) {\n        stepValue = step.value;\n      }\n    } else {\n      from =
1;\n      to = start;\n    }\n    for (let i = from; i <= to.value; i += stepValue) {\n      list.push(new
Dimension(i, to.unit));\n    }\n    return new Expression(list);\n  },\n  each: function(list, rs) {\n    const
rules = [];\n    let newRules;\n    let iterator;\n    \n    const tryEval = val => {\n      if (val instanceof Node) {\n        return val.eval(this.context);\n
      }\n      return val;\n    };\n    if (list.value && !(list instanceof Quote)) {\n      if
(Array.isArray(list.value)) {\n        iterator = list.value.map(tryEval);\n      } else {\n        iterator =
[tryEval(list.value)];\n      }\n    } else if (list.ruleset) {\n      iterator = tryEval(list.ruleset).rules;\n    }
else if (list.rules) {\n      iterator = list.rules.map(tryEval);\n    } else if (Array.isArray(list)) {\n      iterator
= list.map(tryEval);\n    } else {\n      iterator = [tryEval(list)];\n    }\n    \n    let valueName = '@value';\n    let
keyName = '@key';\n    let indexName = '@index';\n    \n    if (rs.params) {\n      valueName =
rs.params[0] && rs.params[0].name;\n      keyName = rs.params[1] && rs.params[1].name;\n      indexName = rs.params[2] && rs.params[2].name;\n      rs = rs.rules;\n    } else {\n      rs =
rs.ruleset;\n    }\n    \n    for (let i = 0; i < iterator.length; i++) {\n      let key;\n      let value;\n      const
item = iterator[i];\n      if (item instanceof Declaration) {\n        key = typeof item.name === 'string' ?
item.name : item.name[0].value;\n        value = item.value;\n      } else {\n        key = new Dimension(i
+ 1);\n        value = item;\n      }\n      \n      if (item instanceof Comment) {\n        continue;\n
      }\n      \n      newRules = rs.rules.slice(0);\n      if (valueName) {\n        newRules.push(new
Declaration(valueName,\n          value,\n          false, false, this.index, this.currentFileInfo));\n      }\n      \n      if (indexName) {\n        newRules.push(new Declaration(indexName,\n          new Dimension(i + 1),\n          false, false, this.index, this.currentFileInfo));\n      }\n      \n      if (keyName) {\n        newRules.push(new Declaration(keyName,\n          key,\n          false, false,
this.index, this.currentFileInfo));\n      }\n      \n      rules.push(new Ruleset([\n        new(Selector)([\n          new Element("\n",
'&') ]),\n        newRules,\n        rs.strictImports,\n        rs.visibilityInfo()\n      ]));\n    }\n    \n    return new Ruleset([\n      new(Selector)([\n        new Element("\n", '&') ]),\n      rules,\n      rs.strictImports,\n      rs.visibilityInfo()\n    ]).eval(this.context);\n  };\n}\n", "import Dimension from '../tree/dimension';\n\nconst
MathHelper = (fn, unit, n) => {\n  if (!(n instanceof Dimension)) {\n    throw { type: 'Argument', message:
'argument must be a number' };\n  }\n  if (unit == null) {\n    unit = n.unit;\n  } else {\n

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    n = n.unify();\n  }\n  return new Dimension(fn(parseFloat(n.value)), unit);\n};\n\nexport default
MathHelper;"", "import mathHelper from './math-helper.js';\n\nconst mathFunctions = {\n  // name, unit\n  ceil:
null,\n  floor: null,\n  sqrt: null,\n  abs: null,\n  tan: "",\n  sin: "",\n  cos: "",\n  atan: 'rad',\n  asin: 'rad',\n
  acos: 'rad'\n};\n\nfor (const f in mathFunctions) {\n  if (mathFunctions.hasOwnProperty(f)) {\n
mathFunctions[f] = mathHelper.bind(null, Math[f], mathFunctions[f]);\n  }\n}\n\nmathFunctions.round = (n, f) =>
{\n  const fraction = typeof f === 'undefined' ? 0 : f.value;\n  return mathHelper(num => num.toFixed(fraction),
null, n);\n};\n\nexport default mathFunctions;\n", "import Dimension from './tree/dimension';\n\nimport Anonymous
from './tree/anonymous';\n\nimport mathHelper from './math-helper.js';\n\nconst minMax = function (isMin, args) {\n
  args = Array.prototype.slice.call(args);\n  switch (args.length)\n  {\n    case 0: throw { type: 'Argument', message: 'one or more arguments required' };\n  }\n  let i; // key is the
unit.toString() for unified Dimension values,\n  let j;\n  let current;\n  let currentUnified;\n  let
referenceUnified;\n  let unit;\n  let unitStatic;\n  let unitClone;\n\n  const // elems only contains original
argument values.\n    order = [];\n\n  const values = {};\n  // value is the index into the order array.\n  for (i =
0; i < args.length; i++) {\n    current = args[i];\n    if (!(current instanceof Dimension)) {\n      if
(Array.isArray(args[i].value)) {\n        Array.prototype.push.apply(args,\n        Array.prototype.slice.call(args[i].value));\n      }\n      continue;\n    }\n    currentUnified =
current.unit.toString() === " && unitClone !== undefined ? new Dimension(current.value, unitClone).unify() :
current.unify();\n    unit = currentUnified.unit.toString() === " && unitStatic
!=== undefined ? unitStatic : currentUnified.unit.toString();\n    unitStatic = unit !== " && unitStatic ===
undefined || unit !== " && order[0].unit.toString() === " ? unit : unitStatic;\n    unitClone = unit !== " &&
unitClone === undefined ? current.unit.toString() : unitClone;\n    j = values[""] !== undefined && unit !== " &&
unit === unitStatic ? values[""] : values[unit];\n    if (j === undefined) {\n      if (unitStatic !== undefined &&
unit !== unitStatic) {\n        throw { type: 'Argument', message: 'incompatible types' };\n      }\n      values[unit] = order.length;\n      order.push(current);\n      continue;\n    }\n    referenceUnified =
order[j].unit.toString() === " && unitClone !== undefined ? new Dimension(order[j].value, unitClone).unify() :
order[j].unify();\n    if (isMin && currentUnified.value < referenceUnified.value ||\n    !isMin &&
currentUnified.value > referenceUnified.value)\n    {\n      order[j] = current;\n    }\n  }\n  if (order.length === 1) {\n    return order[0];\n  }\n  args =
order.map(function (a) { return a.toCSS(this.context); }).join(this.context.compress ? ',' : ' ');\n  return new
Anonymous(`${isMin ? 'min' : 'max'}(${args})`);\n};\n\nexport default {\n  min: function(...args) {\n    return
minMax(true, args);\n  },\n  max: function(...args) {\n    return minMax(false, args);\n  },\n  convert: function
(val, unit) {\n    return val.convertTo(unit.value);\n  },\n  pi: function () {\n    return new
Dimension(Math.PI);\n  },\n  mod: function(a, b) {\n    return new Dimension(a.value % b.value, a.unit);\n  },\n
  pow: function(x, y) {\n    if (typeof x === 'number' && typeof y === 'number') {\n      x = new
Dimension(x);\n      y = new Dimension(y);\n    } else if (!(x instanceof Dimension) || !(y instanceof
Dimension)) {\n      throw { type: 'Argument',
message: 'arguments must be numbers' };\n    }\n    return new Dimension(Math.pow(x.value, y.value),
x.unit);\n  },\n  percentage: function (n) {\n    const result = mathHelper(num => num * 100, '%', n);\n\n
return result;\n  }\n};\n\n", "import Quoted from './tree/quoted';\n\nimport Anonymous from
'./tree/anonymous';\n\nimport JavaScript from './tree/javascript';\n\nexport default {\n  e: function (str) {\n
return new Quoted("", str instanceof JavaScript ? str.evaluated : str.value, true);\n  },\n  escape: function (str) {\n
return new Anonymous(\n    encodeURIComponent(str.value).replace(/=/g, '%3D').replace(/:/g, '%3A').replace(/#/g,
'%23').replace(/;/g, '%3B')\n    .replace(/\\(/g, '%28').replace(/\\)/g, '%29'));\n  },\n  replace: function
(string, pattern, replacement, flags) {\n    let result = string.value;\n    replacement = (replacement.type ===
'Quoted') ?\n    replacement.value : replacement.toCSS();\n\n    result = result.replace(new RegExp(pattern.value, flags ? flags.value : ''), replacement);\n    return new
Quoted(string.quote || "", result, string.escaped);\n  },\n  '%': function (string /* arg, arg, ... */) {\n    const args =
Array.prototype.slice.call(arguments, 1);\n    let result = string.value;\n\n    for (let i = 0; i < args.length; i++)

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{\n      /* jshint loopfunc:true */\n      result = result.replace(/%[sda]/i, token => {\n          const value =
((args[i].type === 'Quoted') &&\n          token.match(/s/i) ? args[i].value : args[i].toCSS());\n          return
token.match(/[A-Z]$/) ? encodeURIComponent(value) : value;\n          });\n      }\n      result =
result.replace(/%%/g, '%');\n      return new Quoted(string.quote || "", result, string.escaped);\n      }\n};\n", "import
Keyword from './tree/keyword';\nimport DetachedRuleset from './tree/detached-ruleset';\nimport Dimension from
'./tree/dimension';\nimport
Color from './tree/color';\nimport Quoted from './tree/quoted';\nimport Anonymous from
'./tree/anonymous';\nimport URL from './tree/url';\nimport Operation from './tree/operation';\n\nconst isa = (n,
Type) => (n instanceof Type) ? Keyword.True : Keyword.False;\nconst isunit = (n, unit) => {\n  if (unit ===
undefined) {\n    throw { type: 'Argument', message: 'missing the required second argument to isunit.' };
}\n  unit = typeof unit.value === 'string' ? unit.value : unit;\n  if (typeof unit !== 'string') {\n    throw { type:
'Argument', message: 'Second argument to isunit should be a unit or a string.' };
}\n  return (n instanceof
Dimension) && n.unit.is(unit) ? Keyword.True : Keyword.False;\n};\n\nexport default {\n  isruleset: function (n)
{\n    return isa(n, DetachedRuleset);\n  },\n  iscolor: function (n) {\n    return isa(n, Color);\n  },\n
isnumber: function (n) {\n    return isa(n, Dimension);\n  },\n
isstring: function (n) {\n    return isa(n, Quoted);\n  },\n iskeyword: function (n) {\n    return isa(n,
Keyword);\n  },\n isurl: function (n) {\n    return isa(n, URL);\n  },\n ispixel: function (n) {\n    return
isunit(n, 'px');\n  },\n ispercentage: function (n) {\n    return isunit(n, '%');\n  },\n isem: function (n) {\n
return isunit(n, 'em');\n  },\n isunit, \n unit: function (val, unit) {\n    if (!(val instanceof Dimension)) {\n
throw { type: 'Argument',\n      message: `the first argument to unit must be a number${ val instanceof
Operation ? '. Have you forgotten parenthesis?' : ''}` };
}\n    if (unit) {\n      if (unit instanceof Keyword)
{\n        unit = unit.value;\n      } else {\n        unit = unit.toCSS();\n      }\n    } else {\n
unit = "";\n    }\n    return new Dimension(val.value, unit);\n  },\n  'get-unit':
function (n) {\n    return new Anonymous(n.unit);\n  }\n};\n", "import functionRegistry from './function-
registry';\nimport functionCaller from './function-caller';\nimport boolean from './boolean';\nimport defaultFunc
from './default';\nimport color from './color';\nimport colorBlending from './color-blending';\nimport dataUri from
'./data-uri';\nimport list from './list';\nimport math from './math';\nimport number from './number';\nimport string
from './string';\nimport svg from './svg';\nimport types from './types';\n\nexport default environment => {\n  const
functions = { functionRegistry, functionCaller };\n  // register functions\n
functionRegistry.addMultiple(boolean);\n  functionRegistry.add('default', defaultFunc.eval.bind(defaultFunc));\n
functionRegistry.addMultiple(color);\n  functionRegistry.addMultiple(colorBlending);\n
functionRegistry.addMultiple(dataUri(environment));\n  functionRegistry.addMultiple(list);\n
functionRegistry.addMultiple(math);\n
functionRegistry.addMultiple(number);\n  functionRegistry.addMultiple(string);\n
functionRegistry.addMultiple(svg(environment));\n  functionRegistry.addMultiple(types);\n\n  return
functions;\n};\n", "import Quoted from './tree/quoted';\nimport URL from './tree/url';\nimport * as utils from
'./utils';\nimport logger from './logger';\n\nexport default environment => {\n  \n  const fallback = (functionThis,
node) => new URL(node, functionThis.index, functionThis.currentFileInfo).eval(functionThis.context);
\n\n  return { 'data-uri': function(mimetypeNode, filePathNode) {\n\n    if (!filePathNode) {\n      filePathNode =
mimetypeNode;\n      mimetypeNode = null;\n    }\n\n    let mimetype = mimetypeNode &&
mimetypeNode.value;\n    let filePath = filePathNode.value;\n    const currentFileInfo = this.currentFileInfo;\n
const currentDirectory = currentFileInfo.rewriteUrls ?\n      currentFileInfo.currentDirectory
: currentFileInfo.entryPath;\n\n    const fragmentStart = filePath.indexOf('#');\n    let fragment = "";\n    if
(fragmentStart !== -1) {\n      fragment = filePath.slice(fragmentStart);\n      filePath = filePath.slice(0,
fragmentStart);\n    }\n\n    const context = utils.clone(this.context);\n    context.rawBuffer = true;\n\n    const fileManager = environment.getFileManager(filePath, currentDirectory, context, environment, true);\n\n    if
(!fileManager) {\n      return fallback(this, filePathNode);\n    }\n\n    let useBase64 = false;\n\n    // detect
the mimetype if not given\n    if (!mimetypeNode) {\n\n      mimetype =

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environment.mimeLookup(filePath);\n\n      if (mimetype === 'image/svg+xml') {\n          useBase64 =
false;\n      } else {\n          // use base 64 unless it's an ASCII or UTF-8 format\n          const charset =
environment.charsetLookup(mimetype);\n          useBase64 = ['US-ASCII', 'UTF-8'].indexOf(charset) < 0;\n      }\n      if (useBase64) { mimetype +=
';base64'; }\n      }\n      else {\n          useBase64 = /;base64$/ .test(mimetype);\n      }\n      const fileSync =
fileManager.loadFileSync(filePath, currentDirectory, context, environment);\n      if (!fileSync.contents) {\n
logger.warn(`Skipped data-uri embedding of ${filePath} because file not found`);\n      return fallback(this,
filePathNode || mimetypeNode);\n      }\n      let buf = fileSync.contents;\n      if (useBase64 &&
!environment.encodeBase64) {\n          return fallback(this, filePathNode);\n      }\n      buf = useBase64 ?
environment.encodeBase64(buf) : encodeURIComponent(buf);\n      const uri =
`data:${mimetype},${buf}${fragment}`;\n      return new URL(new Quoted(`${uri}`, uri, false, this.index,
this.currentFileInfo), this.index, this.currentFileInfo);\n    }};\n  };"import Dimension
from './tree/dimension';\nimport Color from './tree/color';\nimport Expression from './tree/expression';\nimport
Quoted from './tree/quoted';\nimport URL from './tree/url';\n\nexport default environment => {\n  return { 'svg-
gradient': function(direction) {\n    let stops;\n    let gradientDirectionSvg;\n    let gradientType = 'linear';\n    let rectangleDimension = 'x=\\\"0\\\" y=\\\"0\\\" width=\\\"1\\\" height=\\\"1\\\"';\n    const renderEnv = { compress: false };\n    let returner;\n    const directionValue = direction.toCSS(renderEnv);\n    let i;\n    let color;\n    let
position;\n    let positionValue;\n    let alpha;\n\n    function throwArgumentDescriptor() {\n      throw {
type: 'Argument',\n      message: 'svg-gradient expects direction, start_color [start_position], [color
position],..., ' +\n        'end_color [end_position] or direction, color list' };\n    }\n\n    if
(arguments.length
== 2) {\n      if (arguments[1].value.length < 2) {\n          throwArgumentDescriptor();\n      }\n
stops = arguments[1].value;\n    } else if (arguments.length < 3) {\n      throwArgumentDescriptor();\n    }
else {\n      stops = Array.prototype.slice.call(arguments, 1);\n    }\n\n    switch (directionValue) {\n
case 'to bottom':\n      gradientDirectionSvg = 'x1=\\\"0%\\\" y1=\\\"0%\\\" x2=\\\"0%\\\" y2=\\\"100%\\\"';\n
break;\n      case 'to right':\n      gradientDirectionSvg = 'x1=\\\"0%\\\" y1=\\\"0%\\\" x2=\\\"100%\\\" y2=\\\"0%\\\"';\n
break;\n      case 'to bottom right':\n      gradientDirectionSvg = 'x1=\\\"0%\\\" y1=\\\"0%\\\"
x2=\\\"100%\\\" y2=\\\"100%\\\"';\n      break;\n      case 'to top right':\n      gradientDirectionSvg =
'x1=\\\"0%\\\" y1=\\\"100%\\\" x2=\\\"100%\\\" y2=\\\"0%\\\"';\n      break;\n      case 'ellipse':\n      case 'ellipse
at center':\n      gradientType = 'radial';\n      gradientDirectionSvg = 'cx=\\\"50%\\\" cy=\\\"50%\\\"
r=\\\"75%\\\"';\n      rectangleDimension = 'x=\\\"-50%\\\" y=\\\"-50%\\\" width=\\\"101%\\\" height=\\\"101%\\\"';\n
break;\n      default:\n      throw { type: 'Argument', message: 'svg-gradient direction must be \\\"to bottom\\\",
\\\"to right\\\", ' +\n        '\\\"to bottom right\\\", \\\"to top right\\\" or \\\"ellipse at center\\\"' };\n    }\n    returner =
`<svg xmlns=\\\"http://www.w3.org/2000/svg\\\" viewBox=\\\"0 0 1 1\\\"><${gradientType}Gradient id=\\\"g\\\"
${gradientDirectionSvg}>`;\n\n    for (i = 0; i < stops.length; i += 1) {\n      if (stops[i] instanceof Expression)
{\n        color = stops[i].value[0];\n        position = stops[i].value[1];\n      } else {\n        color =
stops[i];\n        position = undefined;\n      }\n      if (!(color instanceof Color) || (!(i === 0
|| i + 1 === stops.length) && position === undefined) && !(position instanceof Dimension)) {\n
throwArgumentDescriptor();\n      }\n      positionValue = position ? position.toCSS(renderEnv) : i === 0 ?
'0%' : '100%';\n      alpha = color.alpha;\n      returner += `<stop offset=\\\"${positionValue}\\\" stop-
color=\\\"${color.toRGB()}\\\" ${alpha < 1 ? `stop-opacity=\\\"${alpha}\\\"` : ''} />`;\n    }\n    returner +=
`</${gradientType}Gradient><rect ${rectangleDimension} fill=\\\"url(#g)\\\" /></svg>`;\n\n    returner =
encodeURIComponent(returner);\n    returner = `data:image/svg+xml,${returner}`;\n    return new URL(new
Quoted(`${returner}`, returner, false, this.index, this.currentFileInfo), this.index, this.currentFileInfo);\n  }
};\n  };"import contexts from './contexts';\nimport visitor from './visitors';\nimport tree from './tree';\n\nexport
default (root, options = {}) => {\n  let evaldRoot;\n  let variables = options.variables;\n\n  const evalEnv = new contexts.Eval(options);\n\n  //\n  // Allows setting variables with a hash, so:\n  //\n  //
{ color: new tree.Color('#f01) }` will become:\n  //\n  // new tree.Declaration('@color',\n  //\n  // new

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tree.Value([\n // new tree.Expression([\n // new tree.Color('#f01')\n // ])\n // ])\n //\n
if (typeof variables === 'object' && !Array.isArray(variables)) {\n variables = Object.keys(variables).map(k
=> {\n let value = variables[k];\n if (!(value instanceof tree.Value)) {\n if (!(value
instanceof tree.Expression)) {\n value = new tree.Expression([value]);\n }
value =
new tree.Value([value]);\n }
return new tree.Declaration(`@${k}`, value, false, null, 0);\n });\n
evalEnv.frames = [new tree.Ruleset(null, variables)];\n }\n\n const visitors = [\n new
visitor.JoinSelectorVisitor(),\n new visitor.MarkVisibleSelectorsVisitor(true),\n new
visitor.ExtendVisitor(),\n new visitor.ToCSSVisitor({compress: Boolean(options.compress)})\n ];\n\n const
preEvalVisitors = [];\n let v;\n let visitorIterator;\n\n /**\n * first() / get() allows visitors to be added while
visiting\n * \n * @todo Add scoping for visitors just like functions for @plugin; right now they're global\n
*\n if (options.pluginManager) {\n visitorIterator = options.pluginManager.visitor();\n for (var i = 0; i <
2; i++) {\n visitorIterator.first();\n while ((v = visitorIterator.get())) {\n if (v.isPreEvalVisitor)
{\n if (i === 0 || preEvalVisitors.indexOf(v) === -1) {\n preEvalVisitors.push(v);\n
v.run(root);\n }
}\n }
else {\n if (i === 0
|| visitors.indexOf(v) === -1) {\n if (v.isPreVisitor) {\n visitors.unshift(v);\n
}\n }
else {\n visitors.push(v);\n }
}\n }
}\n }\n }\n\n evaldRoot = root.eval(evalEnv);\n for (var i = 0; i < visitors.length; i++) {\n
visitors[i].run(evaldRoot);\n }\n\n // Run any remaining visitors added after eval pass\n if
(options.pluginManager) {\n visitorIterator.first();\n while ((v = visitorIterator.get())) {\n if
(visitors.indexOf(v) === -1 && preEvalVisitors.indexOf(v) === -1) {\n v.run(evaldRoot);\n }
}\n }\n\n return evaldRoot;\n};\n", /**\n * Plugin Manager\n *\n class PluginManager {\n constructor(less) {\n
this.less = less;\n this.visitors = [];\n this.preProcessors = [];\n
this.postProcessors = [];\n this.installedPlugins = [];\n this.fileManagers = [];\n this.iterator = -1;\n
this.pluginCache = {};\n this.Loader = new less.PluginLoader(less);\n }\n\n /**\n * Adds all the
plugins in the array\n * @param {Array} plugins\n *\n addPlugins(plugins) {\n if (plugins) {\n
for (let i = 0; i < plugins.length; i++) {\n this.addPlugin(plugins[i]);\n }\n }\n }\n\n /**\n
*\n * @param plugin\n * @param {String} filename\n *\n addPlugin(plugin, filename, functionRegistry)
{\n this.installedPlugins.push(plugin);\n if (filename) {\n this.pluginCache[filename] = plugin;\n
}\n if (plugin.install) {\n plugin.install(this.less, this, functionRegistry ||
this.less.functions.functionRegistry);\n }\n }\n\n /**\n * \n * @param filename\n *\n get(filename)
{\n
return this.pluginCache[filename];\n }\n\n /**\n * Adds a visitor. The visitor object has options on itself to
determine\n * when it should run.\n * @param visitor\n *\n addVisitor(visitor) {\n
this.visitors.push(visitor);\n }\n\n /**\n * Adds a pre processor object\n * @param {object} preProcessor\n
*\n * @param {number} priority - guidelines 1 = before import, 1000 = import, 2000 = after import\n *\n
addPreProcessor(preProcessor, priority) {\n let indexToInsertAt;\n for (indexToInsertAt = 0;
indexToInsertAt < this.preProcessors.length; indexToInsertAt++) {\n if
(this.preProcessors[indexToInsertAt].priority >= priority) {\n break;\n }\n }\n
this.preProcessors.splice(indexToInsertAt, 0, {preProcessor, priority});\n }\n\n /**\n * Adds a post processor
object\n * @param {object} postProcessor\n * @param {number} priority - guidelines 1 = before compression,
1000 = compression, 2000 = after compression\n *\n addPostProcessor(postProcessor, priority) {\n let
indexToInsertAt;\n for (indexToInsertAt = 0; indexToInsertAt < this.postProcessors.length; indexToInsertAt++)
{\n if (this.postProcessors[indexToInsertAt].priority >= priority) {\n break;\n }\n }\n
this.postProcessors.splice(indexToInsertAt, 0, {postProcessor, priority});\n }\n\n /**\n * \n * @param
manager\n *\n addFileManager(manager) {\n this.fileManagers.push(manager);\n }\n\n /**\n * \n
*\n * @returns {Array}\n * @private\n *\n getPreProcessors() {\n const preProcessors = [];\n for (let i
= 0; i < this.preProcessors.length; i++) {\n preProcessors.push(this.preProcessors[i].preProcessor);\n }
}\n\n return preProcessors;\n }\n\n /**\n * \n * @returns {Array}\n * @private\n *\n

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getPostProcessors()
{
  const postProcessors = [];
  for (let i = 0; i < this.postProcessors.length; i++) {
    postProcessors.push(this.postProcessors[i].postProcessor);
  }
  return postProcessors;
}
/**
 * @returns {Array}
 * @private
 */
getVisitors() {
  return this.visitors;
}
visitor()
{
  const self = this;
  return {
    first: function() {
      self.iterator = -1;
      return self.visitors[self.iterator];
    },
    get: function() {
      self.iterator += 1;
      return self.visitors[self.iterator];
    }
  };
}
/**
 * @returns {Array}
 * @private
 */
getFileManagers() {
  return this.fileManagers;
}
}
function PluginManagerFactory(less, newFactory) {
  if (newFactory || !pm) {
    pm = new PluginManager(less);
  }
  return pm;
}
export default PluginManagerFactory;
" /* global window, XMLHttpRequest */
import AbstractFileManager from '../less/environment/abstract-file-manager.js';
let options;
let logger;
let fileCache = {};
// TODOS - move log somewhere. pathDiff and doing something similar in node. use pathDiff in the other browser file for the initial load
class FileManager extends AbstractFileManager {
  alwaysMakePathsAbsolute() {
    return true;
  }
  join(basePath, laterPath) {
    if (!basePath) {
      return laterPath;
    }
    return this.extractUrlParts(laterPath, basePath).path;
  }
  doXHR(url, type, callback, errback) {
    const xhr = new XMLHttpRequest();
    const async = options.isFileProtocol ? options.fileAsync : true;
    if (typeof xhr.overrideMimeType === 'function') {
      xhr.overrideMimeType('text/css');
    }
    logger.debug('XHR: Getting '${url}');
    xhr.open('GET', url, async);
    xhr.setRequestHeader('Accept', type || 'text/x-less, text/css; q=0.9, */*; q=0.5');
    xhr.send(null);
    function handleResponse(xhr, callback, errback) {
      if (xhr.status >= 200 && xhr.status < 300) {
        callback(xhr.responseText, xhr.getResponseHeader('Last-Modified'));
      } else if (typeof errback === 'function') {
        errback(xhr.status, url);
      }
    }
    if (options.isFileProtocol && !options.fileAsync) {
      if (xhr.status === 0 || (xhr.status >= 200 && xhr.status < 300)) {
        callback(xhr.responseText);
      } else {
        errback(xhr.status, url);
      }
    } else if (async) {
      xhr.onreadystatechange = () => {
        if (xhr.readyState === 4) {
          handleResponse(xhr, callback, errback);
        }
      };
    } else {
      handleResponse(xhr, callback, errback);
    }
  }
  supports() {
    return true;
  }
  clearFileCache() {
    fileCache = {};
  }
  loadFile(filename, currentDirectory, options, environment) {
    // TODO: Add prefix support like less-node?
    // What about multiple paths?
    if (currentDirectory && !this.isPathAbsolute(filename)) {
      filename = currentDirectory + filename;
    }
    filename = options.ext ? this.tryAppendExtension(filename, options.ext) : filename;
    options = options || {};
    // sheet may be set to the stylesheet for the initial load or a collection of properties including
    // some context variables for imports
    const hrefParts = this.extractUrlParts(filename, window.location.href);
    const href = hrefParts.url;
    const self = this;
    return new Promise((resolve, reject) => {
      if (options.useFileCache && fileCache[href]) {
        try {
          const lessText = fileCache[href];
          return resolve({ contents: lessText, filename: href, webInfo: { lastModified: new Date() } });
        } catch (e) {
          return reject({ filename: href, message: `Error loading file ${href} error was ${e.message}` });
        }
      }
      self.doXHR(href, options.mime, function doXHRCallback(data, lastModified) {
        // per file cache
        fileCache[href] = data;
        // Use remote copy (re-parse)
        resolve({ contents: data, filename: href, webInfo: { lastModified: lastModified } }, function doXHRError(status, url) {
          reject({ type: 'File', message: ` '${url}' wasn't found (${status})`, href });
        });
      });
    });
  }
  default(opts, log) => {
    options = opts;
    logger = log;
    return FileManager;
  }
}
"import data from './data';
import tree from './tree';
import Environment from './environment/environment';
import AbstractFileManager from './environment/abstract-file-manager';
import AbstractPluginLoader from './environment/abstract-plugin-loader';
import visitors from './visitors';
import Parser from './parser/parser';
import Functions from './functions';
import contexts from './contexts';
import sourceMapOutput from './source-map-output';
import sourceMapBuilder from './source-map-builder';
import parseTree from './parse-

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```
tree';\nimport importManager from './import-manager';\nimport Render from './render';\nimport Parse from './parse';\nimport LessError from './less-error';\nimport transformTree from './transform-tree';\nimport * as utils from './utils';\nimport PluginManager from './plugin-manager';\nimport logger from './logger';\n\nexport default (environment, fileManagers) => {\n  /**\n   * @todo\n   * This original code could be improved quite a bit.\n   *\n
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  Many classes / modules currently add side-effects / mutations to passed in objects,\n   * which makes it hard to refactor and reason about. \n   */\n  environment = new Environment(environment, fileManagers);\n  \n  const SourceMapOutput = sourceMapOutput(environment);\n  const SourceMapBuilder = sourceMapBuilder(SourceMapOutput, environment);\n  const ParseTree = parseTree(SourceMapBuilder);\n  const ImportManager = importManager(environment);\n  const render = Render(environment, ParseTree, ImportManager);\n  const parse = Parse(environment, ParseTree, ImportManager);\n  const functions = Functions(environment);\n  \n  /**\n   * @todo\n   * This root properties / methods need to be organized.\n   *\n  It's not clear what should / must be public and why.\n   */\n  const initial = {\n    version: [3, 13, 1],\n    data,\n    tree,\n    Environment,\n    AbstractFileManager,\n    AbstractPluginLoader,\n    environment,\n    visitors,\n    Parser,\n    functions,\n    contexts,\n    SourceMapOutput,\n    SourceMapBuilder,\n    ParseTree,\n    ImportManager,\n    render,\n    parse,\n    LessError,\n    transformTree,\n    utils,\n    PluginManager,\n    logger\n  };\n  \n  // Create a public API\n  const ctor = t => function (...args) {\n    return new t(...args);\n  };\n  \n  let t;\n  const api = Object.create(initial);\n  for (const n in initial.tree) {\n    /** eslint guard-for-in: 0 */\n    t = initial.tree[n];\n    if (typeof t === 'function') {\n      api[n.toLowerCase()] = ctor(t);\n    } else {\n      api[n] = Object.create(null);\n      for (const o in t) {\n        /** eslint guard-for-in: 0 */\n        api[n][o.toLowerCase()] = ctor(t[o]);\n      }\n    }\n  }\n  \n  /**\n   * Some of the functions assume a `this` context of the API object,\n   * which causes it to fail when wrapped for ES6 imports.\n   *\n   * An assumed `this` should be removed in the future.\n   */\n  initial.parse = initial.parse.bind(api);\n  initial.render = initial.render.bind(api);\n  \n  return api;\n};\n\n", "export default environment => {\n  class SourceMapOutput {\n    constructor(options) {\n      this._css = [];\n      this._rootNode = options.rootNode;\n      this._contentsMap = options.contentsMap;\n      this._contentsIgnoredCharsMap = options.contentsIgnoredCharsMap;\n      if (options.sourceMapFilename) {\n        this._sourceMapFilename = options.sourceMapFilename.replace(/\\\\\\\\g, '/');\n      }\n      this._outputFilename = options.outputFilename;\n      this.sourceMapURL = options.sourceMapURL;\n      if (options.sourceMapBasepath) {\n        this._sourceMapBasepath = options.sourceMapBasepath.replace(/\\\\\\\\g, '/');\n      }\n      if (options.sourceMapRootpath) {\n        this._sourceMapRootpath = options.sourceMapRootpath.replace(/\\\\\\\\g, '/');\n        if (this._sourceMapRootpath.charAt(this._sourceMapRootpath.length - 1) !== '/') {\n          this._sourceMapRootpath += '/';\n        }\n      } else {\n        this._sourceMapRootpath = '';\n      }\n      this._outputSourceFiles = options.outputSourceFiles;\n      this._sourceMapGeneratorConstructor = environment.getSourceMapGenerator();\n      this._lineNumber = 0;\n      this._column = 0;\n    }\n\n    removeBasepath(path) {\n      if (this._sourceMapBasepath && path.indexOf(this._sourceMapBasepath) === 0) {\n        path = path.substr(this._sourceMapBasepath.length);\n        if (path.charAt(0) === '\\\\' || path.charAt(0) === '/') {\n          path = path.substr(1);\n        }\n      }\n      return path;\n    }\n\n    normalizeFilename(filename) {\n      filename = filename.replace(/\\\\\\\\g, '/');\n      filename = this.removeBasepath(filename);\n    }\n\n    return (this._sourceMapRootpath || '') + filename;\n  }\n  \n  add(chunk, fileInfo, index, mapLines) {\n    // ignore adding empty strings\n    if (!chunk) {\n      return;\n    }\n\n    let lines;\n    let sourceLines;\n    let columns;\n    let sourceColumns;\n    let i;\n\n    if (fileInfo && fileInfo.filename) {\n      let inputSource = this._contentsMap[fileInfo.filename];\n      // remove vars/banner added to the top of the file\n      if (this._contentsIgnoredCharsMap[fileInfo.filename]) {\n        // adjust the index\n        index -= this._contentsIgnoredCharsMap[fileInfo.filename];\n      }\n      if

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(index < 0) { index = 0; } \n          // adjust the source \n
    inputSource = inputSource.slice(this._contentsIgnoredCharsMap[fileInfo.filename]); \n          } \n \n
/** \n          * ignore empty content, or failsafe \n          * if contents map is incorrect \n          */ \n
    if (inputSource === undefined) { \n          this._css.push(chunk); \n          return; \n          } \n \n
    inputSource = inputSource.substring(0, index); \n          sourceLines = inputSource.split('\n'); \n
sourceColumns = sourceLines[sourceLines.length - 1]; \n          } \n \n          lines = chunk.split('\n'); \n
columns = lines[lines.length - 1]; \n          if (fileInfo && fileInfo.filename) { \n          if (!mapLines) { \n
    this._sourceMapGenerator.addMapping({ generated: { line: this._lineNumber + 1, column: this._column }, \n
    original: { line: sourceLines.length, column: sourceColumns.length }, \n
    source: this.normalizeFilename(fileInfo.filename)}); \n          } else { \n          for (i = 0; i <
lines.length; i++) { \n          this._sourceMapGenerator.addMapping({ generated: { line: this._lineNumber +
i + 1, column: i === 0 ? this._column : 0 }, \n          original: { line: sourceLines.length + i, column: i ===
0 ? sourceColumns.length : 0 }, \n          source: this.normalizeFilename(fileInfo.filename)}); \n
} \n          } \n          } \n \n          if (lines.length === 1) { \n          this._column += columns.length; \n          }
else { \n          this._lineNumber += lines.length - 1; \n          this._column = columns.length; \n          } \n \n
    this._css.push(chunk); \n          } \n \n          isEmpty() { \n          return this._css.length === 0; \n          } \n \n
toCSS(context) { \n          this._sourceMapGenerator = new this._sourceMapGeneratorConstructor({
file: this._outputFilename, sourceRoot: null }); \n          if (this._outputSourceFiles) { \n          for (const
filename in this._contentsMap) { \n          if (this._contentsMap.hasOwnProperty(filename)) { \n
let source = this._contentsMap[filename]; \n          if (this._contentsIgnoredCharsMap[filename]) { \n
    source = source.slice(this._contentsIgnoredCharsMap[filename]); \n          } \n
this._sourceMapGenerator.setSourceContent(this.normalizeFilename(filename), source); \n          } \n
} \n          } \n \n          this._rootNode.genCSS(context, this); \n \n          if (this._css.length > 0) { \n          let
sourceMapURL; \n          const sourceMapContent = JSON.stringify(this._sourceMapGenerator.toJSON()); \n
if (this.sourceMapURL) { \n          sourceMapURL = this.sourceMapURL; \n
} else if (this._sourceMapFilename) { \n          sourceMapURL = this._sourceMapFilename; \n
} \n          this.sourceMapURL = sourceMapURL; \n          this.sourceMap = sourceMapContent; \n
} \n \n          return this._css.join(""); \n          } \n          } \n \n          return SourceMapOutput; \n          }; \n \n
(SourceMapOutput, environment) => { \n          class SourceMapBuilder { \n          constructor(options) { \n
this.options = options; \n          } \n          toCSS(rootNode, options, imports) { \n          const sourceMapOutput = new
SourceMapOutput(\n          { \n          contentsIgnoredCharsMap: imports.contentsIgnoredChars, \n
rootNode, \n          contentsMap: imports.contents, \n          sourceMapFilename:
this.options.sourceMapFilename, \n          sourceMapURL: this.options.sourceMapURL, \n
outputFilename: this.options.sourceMapOutputFilename, \n
sourceMapBasepath: this.options.sourceMapBasepath, \n          sourceMapRootpath:
this.options.sourceMapRootpath, \n          outputSourceFiles: this.options.outputSourceFiles, \n
sourceMapGenerator: this.options.sourceMapGenerator, \n          sourceMapFileInline:
this.options.sourceMapFileInline, \n          disableSourceMapAnnotation:
this.options.disableSourceMapAnnotation \n          }); \n          const css = sourceMapOutput.toCSS(options); \n
this.sourceMap = sourceMapOutput.sourceMap; \n          this.sourceMapURL =
sourceMapOutput.sourceMapURL; \n          if (this.options.sourceMapInputFilename) { \n
this.sourceMapInputFilename = sourceMapOutput.normalizeFilename(this.options.sourceMapInputFilename); \n
} \n          if (this.options.sourceMapBasepath !== undefined && this.sourceMapURL !== undefined) { \n
this.sourceMapURL = sourceMapOutput.removeBasepath(this.sourceMapURL); \n
} \n          return css + this.getCSSAppendage(); \n          } \n          getCSSAppendage() { \n          let
sourceMapURL = this.sourceMapURL; \n          if (this.options.sourceMapFileInline) { \n          if
(this.sourceMap === undefined) { \n          return "; \n          } \n          sourceMapURL =
`data:application/json;base64,${environment.encodeBase64(this.sourceMap)}`; \n          } \n          } \n          if

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(this.options.disableSourceMapAnnotation) {\n      return ";\n    }\n\n    if (sourceMapURL) {\n      return `/*# sourceMappingURL=${sourceMapURL} */`;\n    }\n    return ";\n  }\n\n  getExternalSourceMap() {\n    return this.sourceMap;\n  }\n\n  setExternalSourceMap(sourceMap) {\n    this.sourceMap = sourceMap;\n  }\n\n  isInline() {\n    return this.options.sourceMapFileInline;\n  }\n\n  getSourceMapURL() {\n    return this.sourceMapURL;\n  }\n\n  getOutputFilename()\n  {\n    return this.options.sourceMapOutputFilename;\n  }\n\n  getInputFilename() {\n    return\n    this.sourceMapInputFilename;\n  }\n}\n\nreturn SourceMapBuilder;\n};\n", "import LessError from './less-error';\nimport transformTree from './transform-tree';\nimport logger from './logger';\n\nexport default\nSourceMapBuilder => {\n  class ParseTree {\n    constructor(root, imports) {\n      this.root = root;\n      this.imports = imports;\n    }\n\n    toCSS(options) {\n      let evaldRoot;\n      const result = {};\n\n      let sourceMapBuilder;\n      try {\n        evaldRoot = transformTree(this.root, options);\n      } catch (e)\n      {\n        throw new LessError(e, this.imports);\n      }\n\n      try {\n        const compress =\n        Boolean(options.compress);\n\n        if (compress) {\n          logger.warn("The compress option has been deprecated. ' +\n          'We recommend you use a dedicated css minifier, for instance see less-plugin-clean-css.);\n        }\n\n        const toCSOptions = {\n          compress,\n          dumpLineNumbers: options.dumpLineNumbers,\n          strictUnits: Boolean(options.strictUnits),\n          numPrecision: 8;\n        }\n\n        if\n        (options.sourceMap) {\n          sourceMapBuilder = new SourceMapBuilder(options.sourceMap);\n        }\n\n        result.css = sourceMapBuilder.toCSS(evaldRoot, toCSOptions, this.imports);\n      } else {\n        result.css = evaldRoot.toCSS(toCSOptions);\n      }\n    } catch (e) {\n      throw new LessError(e,\n      this.imports);\n    }\n\n    if (options.pluginManager) {\n      const\n      postProcessors = options.pluginManager.getPostProcessors();\n\n      for (let i = 0; i < postProcessors.length;\n      i++) {\n        result.css = postProcessors[i].process(result.css, {\n        sourceMap: sourceMapBuilder, options,\n        imports: this.imports });\n      }\n\n      if (options.sourceMap) {\n        result.map =\n        sourceMapBuilder.getExternalSourceMap();\n      }\n\n      result.imports = [];\n\n      for (const file in\n      this.imports.files) {\n        if (this.imports.files.hasOwnProperty(file) && file !== this.imports.rootFilename)\n        {\n          result.imports.push(file);\n        }\n      }\n\n      return result;\n    }\n  }\n}\n\nreturn\nParseTree;\n};\n", "import contexts from './contexts';\nimport Parser from './parser/parser';\nimport LessError from\n'./less-error';\nimport * as utils from './utils';\nimport logger from './logger';\n\nexport default function(environment)\n{\n  // FileInfo = {\n  //   'rewriteUrls' - option - whether to adjust URL's to be relative\n  //   'filename' - full resolved\n  //   filename of current file\n  //   'rootpath' - path to append to normal URLs for this node\n  //   'currentDirectory' -\n  //   path to the current file, absolute\n  //   'rootFilename' - filename of the base file\n  //   'entryPath' - absolute path to\n  //   the entry file\n  //   'reference' - whether the file should not be output and only output parts that are referenced\n  }\n\n  class ImportManager {\n    constructor(less, context, rootFileInfo) {\n      this.less = less;\n      this.rootFilename = rootFileInfo.filename;\n      this.paths = context.paths || [];\n      // Search paths, when importing\n\n      this.contents = {};\n      // map - filename to contents of all the files\n      this.contentsIgnoredChars =\n      {};\n      // map - filename to lines at the beginning of each file to ignore\n      this.mime = context.mime;\n\n      this.error = null;\n      this.context = context;\n      // Deprecated? Unused outside of here, could be useful.\n\n      this.queue = [];\n      // Files which haven't been imported yet\n      this.files = {};\n      // Holds the imported\n      parse trees.\n    }\n\n    /**\n     * Add an import to be imported\n     * @param path - the raw path\n     *\n     * @param tryAppendExtension - whether to try appending a file extension (.less or .js if the path has no extension)\n     *\n     * @param currentFileInfo - the current file info (used for instance to work out relative paths)\n     * @param\n     importOptions - import options\n     * @param callback - callback for when it is imported\n     */\n\n    push(path, tryAppendExtension, currentFileInfo, importOptions, callback) {\n      const importManager = this,\n      pluginLoader = this.context.pluginManager.Loader;\n\n      this.queue.push(path);\n\n      const\n      fileParsedFunc = function (e,

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root, fullPath) {\n      importManager.queue.splice(importManager.queue.indexOf(path), 1); // Remove the
path from the queue\n\n      const importedEqualsRoot = fullPath === importManager.rootFilename;\n      if (importOptions.optional && e) {\n          callback(null, {rules:[]}, false, null);\n      }\n      logger.info(`The file ${fullPath} was skipped because it was not found and the import was marked optional.`);\n      }\n      else {\n          // Inline imports aren't cached here.\n          // If we start to cache them,\n          please make sure they won't conflict with non-inline imports of the\n          // same name as they used to do\n          before this comment and the condition below have been added.\n          if (!importManager.files[fullPath] &&\n          !importOptions.inline) {\n              importManager.files[fullPath] = { root, options: importOptions };\n          }\n      }\n      if (e && !importManager.error) { importManager.error = e; }\n      callback(e, root,\n      importedEqualsRoot, fullPath);\n      }\n      };\n      const newFileInfo = {\n          rewriteUrls:\n      this.context.rewriteUrls,\n          entryPath: currentFileInfo.entryPath,\n          rootpath:\n      currentFileInfo.rootpath,\n          rootFilename: currentFileInfo.rootFilename\n      };\n      const\n      fileManager = environment.getFileManager(path, currentFileInfo.currentDirectory, this.context, environment);\n      if (!fileManager) {\n          fileParsedFunc({ message: `Could not find a file-manager for ${path}` });\n          return;\n      }\n      const loadFileCallback = function(loadedFile) {\n          let plugin;\n          const resolvedFilename = loadedFile.filename;\n          const contents = loadedFile.contents.replace(/^\uFEFF/,)\n          );\n          // Pass on an updated rootpath if path of imported file is relative and file\n          // is in a (sub/sup)\n          directory\n          // Examples:\n          // - If path of imported file is 'module/nav/nav.less' and\n          rootpath is 'less/',\n          // then rootpath should become 'less/module/nav/'\n          // - If path of imported\n          file is './mixins.less' and rootpath is 'less/',\n          // then rootpath should become 'less/./'\n          newFileInfo.currentDirectory = fileManager.getPath(resolvedFilename);\n          if (newFileInfo.rewriteUrls) {\n              newFileInfo.rootpath = fileManager.join(\n              (importManager.context.rootpath || ''),\n              fileManager.pathDiff(newFileInfo.currentDirectory, newFileInfo.entryPath));\n          }\n          if\n          (!fileManager.isPathAbsolute(newFileInfo.rootpath) && fileManager.alwaysMakePathsAbsolute()) {\n              newFileInfo.rootpath = fileManager.join(newFileInfo.entryPath, newFileInfo.rootpath);\n          }\n          }\n          newFileInfo.filename = resolvedFilename;\n          const newEnv = new\n          contexts.Parse(importManager.context);\n          newEnv.processImports = false;\n          importManager.contents[resolvedFilename] = contents;\n          if (currentFileInfo.reference ||\n          importOptions.reference) {\n              newFileInfo.reference = true;\n          }\n          if\n          (importOptions.isPlugin) {\n              plugin = pluginLoader.evalPlugin(contents, newEnv, importManager,\n              importOptions.pluginArgs, newFileInfo);\n              if (plugin instanceof LessError) {\n                  fileParsedFunc(plugin, null, resolvedFilename);\n              }\n              else {\n                  fileParsedFunc(null, plugin, resolvedFilename);\n              }\n          }\n          } else if (importOptions.inline) {\n              fileParsedFunc(null, contents, resolvedFilename);\n          }\n          } else {\n              // import (multiple) parse trees apparently get altered and can't be cached.\n              //\n              // TODO: investigate why this is\n              if (importManager.files[resolvedFilename]\n              &&\n              !importManager.files[resolvedFilename].options.multiple\n              && !importOptions.multiple) {\n                  fileParsedFunc(null, importManager.files[resolvedFilename].root, resolvedFilename);\n              }\n              else {\n                  new Parser(newEnv, importManager, newFileInfo).parse(contents, function (e, root) {\n                      fileParsedFunc(e, root, resolvedFilename);\n                  });\n              }\n          }\n      }\n      let loadedFile;\n      let promise;\n      const context = utils.clone(this.context);\n      if (tryAppendExtension) {\n          context.ext =\n          importOptions.isPlugin ? '.js' : '.less';\n      }\n      if (importOptions.isPlugin) {\n          context.mime =\n          'application/javascript';\n      }\n      if (context.syncImport) {\n          loadedFile =\n          pluginLoader.loadPluginSync(path, currentFileInfo.currentDirectory, context, environment, fileManager);\n      }\n      } else {\n          promise = pluginLoader.loadPlugin(path, currentFileInfo.currentDirectory, context,\n
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environment, fileManager);
    }
    }
    else {
        if (context.syncImport) {
            loadedFile = fileManager.loadFileSync(path, currentFileInfo.currentDirectory, context, environment);
        }
        else {
            promise = fileManager.loadFile(path, currentFileInfo.currentDirectory, context, environment,
                (err, loadedFile) => {
                    if (err) {
                        fileParsedFunc(err);
                    }
                    else {
                        loadFileCallback(loadedFile);
                    }
                });
            if (loadedFile) {
                if (!loadedFile.filename) {
                    fileParsedFunc(loadedFile);
                }
                else {
                    loadFileCallback(loadedFile);
                }
            }
            else if (promise) {
                promise.then(loadFileCallback, fileParsedFunc);
            }
        }
    }
    return
    ImportManager;
};
", "import * as utils from './utils';
\nexport default (environment, ParseTree, ImportManager)
=> {
    const render = function (input, options, callback) {
        if (typeof options === 'function') {
            callback = options;
            options = utils.copyOptions(this.options, {});
        }
        else {
            options = utils.copyOptions(this.options, options || {});
        }
        if (!callback) {
            const self = this;
            return new Promise((resolve, reject) => {
                render.call(self, input,
                    options, (err, output) => {
                        if (err) {
                            reject(err);
                        }
                        else {
                            resolve(output);
                        }
                    });
            });
        }
        else {
            this.parse(input, options, (err,
                root, imports, options) => {
                    if (err) {
                        return callback(err);
                    }
                    let result;
                    try {
                        const parseTree = new ParseTree(root, imports);
                        result = parseTree.toCSS(options);
                    }
                    catch (err) {
                        return callback(err);
                    }
                    callback(null, result);
                });
            }
        }
    };
    return render;
};
", "import
contexts from './contexts';
\nimport Parser from './parser/parser';
\nimport PluginManager from './plugin-
manager';
\nimport LessError from './less-error';
\nimport * as utils from './utils';
\nexport default (environment,
ParseTree, ImportManager) => {
    const parse = function (input, options, callback) {
        if (typeof options
=== 'function') {
            callback = options;
            options = utils.copyOptions(this.options, {});
        }
        else {
            options = utils.copyOptions(this.options, options || {});
        }
        if (!callback) {
            const
self = this;
            return new Promise((resolve, reject) => {
                parse.call(self, input, options, (err, output)
=> {
                    if (err) {
                        reject(err);
                    }
                    else {
                        resolve(output);
                    }
                });
            });
        }
        else {
            let context;
            let rootFileInfo;
            const pluginManager = new PluginManager(this,
!options.reUsePluginManager);
            options.pluginManager = pluginManager;
            context = new
contexts.Parse(options);
            if (options.rootFileInfo) {
                rootFileInfo = options.rootFileInfo;
            }
            else {
                const filename = options.filename || 'input';
                const entryPath =
filename.replace(/^[^\\|\\|\\|]*$/, "");
                rootFileInfo = {
                    filename,
                    rewriteUrls:
context.rewriteUrls,
                    rootpath: context.rootpath || "",
                    currentDirectory: entryPath,
                    entryPath,
                    rootFilename: filename
                };
                // add in a missing trailing slash
                if (rootFileInfo.rootpath && rootFileInfo.rootpath.slice(-1) !== '/') {
                    rootFileInfo.rootpath += '/';
                }
            }
            const imports = new ImportManager(this, context, rootFileInfo);
            this.importManager = imports;
            // TODO: allow the plugins to be just a list of paths or names
            //
            Do an async plugin queue like lessc
            if (options.plugins) {
                options.plugins.forEach(plugin =>
{
                    let evalResult;
                    let contents;
                    if (plugin.fileContent) {
                        contents = plugin.fileContent.replace(/^\uFEFF/, "");
                        evalResult =
pluginManager.Loader.evalPlugin(contents, context, imports, plugin.options, plugin.filename);
                    }
                    else if
(evalResult instanceof LessError) {
                        return callback(evalResult);
                    }
                });
            }
            else {
                pluginManager.addPlugin(plugin);
            }
        }
    };
    new Parser(context, imports, rootFileInfo)
        .parse(input, (e, root) => {
            if (e) {
                return callback(e);
            }
            callback(null, root, imports, options);
        }, options);
};
return parse;
};
", "
// TODO: Add tests for browser
@plugin
\n/* global window */
\nimport
AbstractPluginLoader from './less/environment/abstract-plugin-loader.js';
\n/**
 * Browser Plugin Loader

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*\n\nclass PluginLoader extends AbstractPluginLoader {\n  constructor(less) {\n    super();\n\n    this.less =
less;\n    // Should we shim this.require for browser? Probably not?\n  }\n\n  loadPlugin(filename, basePath,
context, environment, fileManager) {\n    return new Promise((fulfill, reject) => {\n
fileManager.loadFile(filename, basePath, context, environment)\n      .then(fulfill).catch(reject);\n    });\n
}\n}\n\nexport default PluginLoader;\n\n", "import
* as utils from './utils';\nimport browser from './browser';\n\nexport default (window, less, options) => {\n\n
function errorHTML(e, rootHref) {\n  const id = `less-error-message:${utils.extractId(rootHref || "")}`;\n
const template = '<li><label>{line}</label><pre class="{class}">{content}</pre></li>';\n  const elem =
window.document.createElement('div');\n  let timer;\n  let content;\n  const errors = [];\n  const
filename = e.filename || rootHref;\n  const filenameNoPath = filename.match(/([^\|]+(\/?.*)?)$/)[1];\n\n
elem.id = id;\n  elem.className = 'less-error-message';\n\n  content = `<h3>${e.type || 'Syntax'}Error:
${e.message || 'There is an error in your .less file'}` + \n
`</h3><p>in <a
href="${filename}">${filenameNoPath}</a>`; \n\n  const errorline = (e, i, classname) => {\n    if
(e.extract[i] !== undefined) {\n      errors.push(template.replace(/\{line\}/,
(parseInt(e.line, 10) || 0) + (i - 1))\n        .replace(/\{class\}/, classname)\n
.replace(/\{content\}/, e.extract[i]));\n    }\n  }; \n\n  if (e.line) {\n    errorline(e, 0, "");\n
errorline(e, 1, 'line');\n    errorline(e, 2, "");\n    content += `on line ${e.line}, column ${e.column +
1}:</p><ul>${errors.join("")}</ul>`; \n  } \n\n  if (e.stack && (e.extract || options.logLevel >= 4)) {\n
content += `<br>Stack Trace<br />${e.stack.split("\n").slice(1).join('<br/>')}`; \n  } \n\n  elem.innerHTML =
content;\n\n  // CSS for error messages\n  browser.createCSS(window.document, [\n    '.less-error-
message ul, .less-error-message li {\n      list-style-type: none;\n      margin-right: 15px;\n
padding: 4px 0;\n      margin: 0;\n      }\n      .less-error-message label {\n
font-size: 12px;\n      margin-right: 15px;\n      padding: 4px 0;\n      color: #cc7777;\n
}\n      .less-error-message pre {\n      color: #dd6666;\n      padding: 4px 0;\n      margin: 0;\n
display: inline-block;\n      }\n      .less-error-message pre.line {\n      color: #ff0000;\n
}\n      .less-error-message h3 {\n      font-size: 20px;\n      font-weight: bold;\n      padding:
15px 0 5px 0;\n      margin: 0;\n      }\n      .less-error-message a {\n      color: #10a;\n
}\n      .less-error-message .error {\n      color: red;\n      font-weight: bold;\n      padding-
bottom: 2px;\n      border-bottom: 1px dashed red;\n      }\n    ],join("\n"), { title: 'error-message' });\n\n
elem.style.cssText
= [\n    'font-family: Arial, sans-serif',\n    'border: 1px solid #e00',\n    'background-color: #eee',\n
'border-radius: 5px',\n    '-webkit-border-radius: 5px',\n    '-moz-border-radius: 5px',\n    'color:
#e00',\n    'padding: 15px',\n    'margin-bottom: 15px'\n  ],join(';');\n\n  if (options.env ===
'development') {\n    timer = setInterval(() => {\n      const document = window.document;\n
const body = document.body;\n      if (body) {\n        if (document.getElementById(id)) {\n
body.replaceChild(elem, document.getElementById(id));\n        } else {\n
body.insertBefore(elem, body.firstChild);\n        }\n        clearInterval(timer);\n      }\n    },
10);\n  }\n}\n\nfunction removeErrorHTML(path) {\n  const node =
window.document.getElementById(`less-error-message:${utils.extractId(path)}`);\n
  if (node) {\n    node.parentNode.removeChild(node);\n  }\n}\n\nfunction
removeErrorConsole(path) {\n  // no action\n}\n\nfunction removeError(path) {\n  if
(!options.errorReporting || options.errorReporting === 'html') {\n    removeErrorHTML(path);\n  } else if
(options.errorReporting === 'console') {\n    removeErrorConsole(path);\n  } else if (typeof
options.errorReporting === 'function') {\n    options.errorReporting('remove', path);\n  }\n}\n\n
function errorConsole(e, rootHref) {\n  const template = '{line} {content}';\n  const filename = e.filename ||
rootHref;\n  const errors = [];\n  let content = `${e.type || 'Syntax'}Error: ${e.message || 'There is an error in
your .less file'}` in ${filename};\n\n  const errorline = (e, i, classname) => {\n    if (e.extract[i] !==
undefined)

```

```

    {\n      errors.push(template.replace(/\{line\}/, (parseInt(e.line, 10) || 0) + (i - 1))\n
.replace(/\{class\}/, classname)\n      .replace(/\{content\}/, e.extract[i]));\n    }\n  };\n\n  if
(e.line) {\n    errorline(e, 0, ");\n    errorline(e, 1, 'line');\n    errorline(e, 2, ");\n    content += ` on
line ${e.line}, column ${e.column + 1}:`\n${errors.join("\n")}`;\n  }\n  if (e.stack && (e.extract ||
options.logLevel >= 4)) {\n    content += `\nStack Trace\n${e.stack}`;\n  }\n  less.logger.error(content);\n }\n\n function error(e, rootHref) {\n  if (!options.errorReporting ||
options.errorReporting === 'html') {\n    errorHTML(e, rootHref);\n  } else if (options.errorReporting ===
'console') {\n    errorConsole(e, rootHref);\n  } else if (typeof options.errorReporting === 'function') {\n
options.errorReporting('add',
e, rootHref);\n  }\n }\n\n return {\n  add: error,\n  remove: removeError\n };};\n\n", "/*\n * Kicks
off less and compiles any stylesheets\n * used in the browser distributed version of less\n * to kick-start less using
the browser api\n * /\n * global window, document\n *\nimport defaultOptions from './less/default-options';\nimport
addDefaultOptions from './add-default-options';\nimport root from './index';\nconst options =
defaultOptions();\n\nif (window.less) {\n  for (const key in window.less) {\n    if
(window.less.hasOwnProperty(key)) {\n      options[key] = window.less[key];\n    }\n  }\n}\n\naddDefaultOptions(window, options);\n\noptions.plugins = options.plugins || [];\n\nif
(window.LESS_PLUGINS) {\n  options.plugins = options.plugins.concat(window.LESS_PLUGINS);\n}\n\nconst
less = root(window, options);\n\nexport default less;\n\nwindow.less = less;\n\nlet css;\nlet head;\nlet style;\n\n//
Always restore
page visibility\n\nfunction resolveOrReject(data) {\n  if (data.filename) {\n    console.warn(data);\n  }\n  if
(!options.async) {\n    head.removeChild(style);\n  }\n}\n\nif (options.onReady) {\n  if
(/!watch/.test(window.location.hash)) {\n    less.watch();\n  }\n  // Simulate synchronous stylesheet loading by
hiding page rendering\n  if (!options.async) {\n    css = 'body { display: none !important }';\n    head =
document.head || document.getElementsByTagName('head')[0];\n    style = document.createElement('style');\n\n
style.type = 'text/css';\n    if (style.styleSheet) {\n      style.styleSheet.cssText = css;\n    } else {\n
style.appendChild(document.createTextNode(css));\n    }\n    head.appendChild(style);\n  }\n}\n\nless.registerStylesheetsImmediately();\n  less.pageLoadFinished = less.refresh(less.env ===
'development').then(resolveOrReject, resolveOrReject);\n}\n\n", "/* Export a new default
each time\n\nexport default () => ({\n  /* Inline Javascript - @plugin still allowed\n  javascriptEnabled:
false,\n\n  /* Outputs a makefile import dependency list to stdout. *\n  depends: false,\n\n  /* (DEPRECATED)
Compress using less built-in compression. \n * This does an okay job but does not utilise all the tricks of \n *
dedicated css compression. *\n  compress: false,\n\n  /* Runs the less parser and just reports errors without any
output. *\n  lint: false,\n\n  /* Sets available include paths.\n  * If the file in an @import rule does not exist at that
exact location, \n * less will look for it at the location(s) passed to this option. \n * You might use this for instance
to specify a path to a library which \n * you want to be referenced simply and relatively in the less files. *\n
paths: [],\n\n  /* color output in the terminal *\n  color: true,\n\n  /* The strictImports controls whether the
compiler will allow an @import inside of either
\n * @media blocks or (a later addition) other selector blocks.\n  * See: https://github.com/less/less.js/issues/656
*\n  strictImports: false,\n\n  /* Allow Imports from Insecure HTTPS Hosts *\n  insecure: false,\n\n  /* Allows
you to add a path to every generated import and url in your css. \n * This does not affect less import statements that
are processed, just ones \n * that are left in the output css. *\n  rootpath: "",\n\n  /* By default URLs are kept as-is,
so if you import a file in a sub-directory \n * that references an image, exactly the same URL will be output in the
css. \n * This option allows you to re-write URL's in imported files so that the \n * URL is always relative to the
base imported file *\n  rewriteUrls: false,\n\n  /* How to process math \n * 0 always - eagerly try to solve
all operations\n * 1 parens-division - require parens for division\n * 2 parens | strict - require parens for all
operations\n * 3
strict-legacy - legacy strict behavior (super-strict)\n *\n  math: 0,\n\n  /* Without this option, less attempts to
guess at the output unit when it does maths. *\n  strictUnits: false,\n\n  /* Effectively the declaration is put at the

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top of your base Less file, \n * meaning it can be used but it also can be overridden if this variable \n * is defined in
the file. *\n globalVars: null,\n\n /* As opposed to the global variable option, this puts the declaration at the\n *
end of your base file, meaning it will override anything defined in your Less file. *\n modifyVars: null,\n\n /*
This option allows you to specify a argument to go on to every URL. *\n urlArgs: ""});","import {addDataAttr}
from './utils';\nimport browser from './browser';\n\nexport default (window, options) => {\n\n // use options from
the current script tag data attributes\n addDataAttr(options, browser.currentScript(window));\n\n if
(options.isFileProtocol === undefined)
{\n options.isFileProtocol = /^(file|(chrome|safari)(-
extension)?|resource|qrc|app):/.test(window.location.protocol);\n }\n\n // Load styles asynchronously (default:
false)\n\n // This is set to `false` by default, so that the body\n // doesn't start loading before the stylesheets
are parsed.\n\n // Setting this to `true` can result in flickering.\n\n //\n options.async = options.async || false;\n
options.fileAsync = options.fileAsync || false;\n\n // Interval between watch polls\n options.poll = options.poll ||
(options.isFileProtocol ? 1000 : 1500);\n\n options.env = options.env || (window.location.hostname === '127.0.0.1'
||\n window.location.hostname === '0.0.0.0' ||\n window.location.hostname === 'localhost' ||\n
(window.location.port &&\n window.location.port.length > 0) ||\n options.isFileProtocol\n ?
'development'\n : 'production');\n\n const dumpLineNumbers =
/!dumpLineNumbers:(comments|mediaquery|all)/.exec(window.location.hash);\n
if (dumpLineNumbers) {\n options.dumpLineNumbers = dumpLineNumbers[1];\n }\n\n if
(options.useFileCache === undefined) {\n options.useFileCache = true;\n }\n\n if (options.onReady ===
undefined) {\n options.onReady = true;\n }\n\n if (options.relativeUrls) {\n options.rewriteUrls = 'all';\n
}\n};\n", "\n\n// index.js\n\n// Should expose the additional browser functions on to the less object\n\nimport
{addDataAttr} from './utils';\nimport lessRoot from './less';\nimport browser from './browser';\nimport FM from
 './file-manager';\nimport PluginLoader from './plugin-loader';\nimport LogListener from './log-listener';\nimport
ErrorReporting from './error-reporting';\nimport Cache from './cache';\nimport ImageSize from './image-
size';\n\nexport default (window, options) => {\n const document = window.document;\n const less =
lessRoot();\n\n less.options = options;\n
const environment = less.environment;\n const FileManager = FM(options, less.logger);\n const fileManager
= new FileManager();\n environment.addFileManager(fileManager);\n less.FileManager = FileManager;\n
less.PluginLoader = PluginLoader;\n\n LogListener(less, options);\n const errors = ErrorReporting(window, less,
options);\n const cache = less.cache = options.cache || Cache(window, options, less.logger);\n
ImageSize(less.environment);\n\n // Setup user functions - Deprecate?\n if (options.functions) {\n
less.functions.functionRegistry.addMultiple(options.functions);\n }\n\n const typePattern = /^text\\/(x-
)?less$/;\n\n function clone(obj) {\n const cloned = {};\n for (const prop in obj) {\n if
(obj.hasOwnProperty(prop)) {\n cloned[prop] = obj[prop];\n }\n }\n return cloned;\n
}\n\n // only really needed for phantom\n function bind(func, thisArg) {\n
const curryArgs = Array.prototype.slice.call(arguments, 2);\n return function() {\n const args =
curryArgs.concat(Array.prototype.slice.call(arguments, 0));\n return func.apply(thisArg, args);\n };
}\n\n function loadStyles(modifyVars) {\n const styles = document.getElementsByTagName('style');\n let
style;\n\n for (let i = 0; i < styles.length; i++) {\n style = styles[i];\n if
(style.type.match(typePattern)) {\n const instanceOptions = clone(options);\n
instanceOptions.modifyVars = modifyVars;\n const lessText = style.innerHTML || "";\n
instanceOptions.filename = document.location.href.replace(/#.*$/, "");\n\n /* jshint loopfunc:true *\n
\n // use closure to store current style\n less.render(lessText, instanceOptions,\n bind((style, e,
result) => {\n if (e)
{\n errors.add(e, 'inline');\n } else {\n style.type = 'text/css';\n
if (style.styleSheet) {\n style.styleSheet.cssText = result.css;\n } else
{\n style.innerHTML = result.css;\n }, null,
style));\n }\n }\n }\n\n function loadStyleSheet(sheet, callback, reload, remaining, modifyVars) {\n

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const instanceOptions = clone(options);\n      addDataAttr(instanceOptions, sheet);\n      instanceOptions.mime
= sheet.type;\n\n      if (modifyVars) {\n      instanceOptions.modifyVars = modifyVars;\n      }\n\nfunction loadInitialFileCallback(loadedFile) {\n      const data = loadedFile.contents;\n      const path =
loadedFile.filename;\n      const webInfo = loadedFile.webInfo;\n\n      const newFileInfo = {\n      currentDirectory: fileManager.getPath(path),\n      filename: path,\n      rootFilename: path,\n      rewriteUrls: instanceOptions.rewriteUrls\n      };\n\nnewFileInfo.entryPath = newFileInfo.currentDirectory;\n      newFileInfo.rootpath = instanceOptions.rootpath ||
newFileInfo.currentDirectory;\n      if (webInfo) {\n      webInfo.remaining = remaining;\n\nconst css = cache.getCSS(path, webInfo, instanceOptions.modifyVars);\n      if (!reload && css) {\n      webInfo.local = true;\n      callback(null, css, data, sheet, webInfo, path);\n      return;\n      }\n      }\n      // TODO add tests around how this behaves when reloading\nerrors.remove(path);\n      instanceOptions.rootFileInfo = newFileInfo;\n      less.render(data,
instanceOptions, (e, result) => {\n      if (e) {\n      e.href = path;\n      callback(e);\n      } else {\n      cache.setCSS(sheet.href, webInfo.lastModified, instanceOptions.modifyVars, result.css);\n      callback(null, result.css, data, sheet, webInfo, path);\n      }\n      });\n      }\n\nfileManager.loadFile(sheet.href, null, instanceOptions, environment)\n      .then(loadedFile => {\n      loadInitialFileCallback(loadedFile);\n      }).catch(err => {\n      console.log(err);\n      callback(err);\n      });\n      }\n\nfunction loadStyleSheets(callback, reload, modifyVars) {\n      for (let i = 0;
i < less.sheets.length; i++) {\n      loadStyleSheet(less.sheets[i], callback, reload, less.sheets.length - (i + 1),
modifyVars);\n      }\n      }\n\nfunction initRunningMode() {\n      if (less.env === 'development')
{\n      less.watchTimer = setInterval(() => {\n      if (less.watchMode) {\n      fileManager.clearFileCache();\n      loadStyleSheets((e, css, _, sheet, webInfo) => {\n      if (e)
{\n      errors.add(e, e.href || sheet.href);\n      } else if (css) {\n      browser.createCSS(window.document, css, sheet);\n      }\n      });\n      }\n      },
options.poll);\n      }\n      }\n\n//\n // Watch mode\n //\n less.watch = function () {\n      if
(!less.watchMode) {\n      less.env = 'development';\n      initRunningMode();\n      }\n      this.watchMode
= true;\n      return true;\n      };\n\n      less.unwatch = function () {\n      clearInterval(less.watchTimer);\n      this.watchMode =
false;\n      return false;\n      };\n\n      //\n // Synchronously get all <link> tags with the 'rel' attribute set to\n
//\n\"stylesheet/less\".\n //\n less.registerStylesheetsImmediately = () => {\n      const links =
document.getElementsByTagName('link');\n      less.sheets = [];\n\n      for (let i = 0; i < links.length; i++) {\n      if (links[i].rel === 'stylesheet/less' || (links[i].rel.match(/stylesheet/) &&\n
(links[i].type.match(typePattern)))) {\n      less.sheets.push(links[i]);\n      }\n      }\n      }\n\n//\n //
Asynchronously get all <link> tags with the 'rel' attribute set to\n //\n\"stylesheet/less\", returning a Promise.\n //\n
less.registerStylesheets = () => new Promise((resolve, reject) => {\n      less.registerStylesheetsImmediately();\n      resolve();\n      });\n\n//\n // With this function, it's possible to alter variables and re-render\n // CSS without
reloading less-files\n //\n less.modifyVars = record => less.refresh(true, record, false);\n\n      less.refresh =
(reload, modifyVars, clearFileCache)
=> {\n      if ((reload || clearFileCache) && clearFileCache !== false) {\n      fileManager.clearFileCache();\n      }\n      return new Promise((resolve, reject) => {\n      let startTime;\n      let endTime;\n      let
totalMilliseconds;\n      let remainingSheets;\n      startTime = endTime = new Date();\n\n      // Set
counter for remaining unprocessed sheets\n      remainingSheets = less.sheets.length;\n\n      if
(remainingSheets === 0) {\n      endTime = new Date();\n      totalMilliseconds = endTime -
startTime;\n      less.logger.info('Less has finished and no sheets were loaded.);\n      resolve({\n      startTime,\n      endTime,\n      totalMilliseconds,\n      sheets: less.sheets.length\n
      });\n      }\n      } else {\n      // Relies on less.sheets array, callback seems to be guaranteed
to be called for every element of the array\n      loadStyleSheets((e, css, _, sheet, webInfo) => {\n      if (e) {\n      errors.add(e, e.href || sheet.href);\n      reject(e);\n      return;\n      }\n      if (webInfo.local) {\n      less.logger.info(`Loading ${sheet.href} from cache.`);\n

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    } else {\n
        less.logger.info(`Rendered ${sheet.href} successfully.`);\n
    }\n
    browser.createCSS(window.document, css, sheet);\n
    less.logger.info(`CSS for ${sheet.href} generated\n
    in ${new Date() - endTime}ms`);\n
    // Count completed sheet\n
    remainingSheets--;\n
    // Check if the last remaining sheet was processed and then call the promise\n
    if (remainingSheets\n
    === 0) {\n
        totalMilliseconds\n
    = new Date() - startTime;\n
        less.logger.info(`Less has finished. CSS generated in\n
    ${totalMilliseconds}ms`);\n
        resolve({\n
            startTime,\n
            endTime,\n
            totalMilliseconds,\n
            sheets: less.sheets.length\n
        });\n
    }\n
    endTime = new Date();\n
    }, reload, modifyVars);\n
    }\n
    loadStyles(modifyVars);\n
});\n
};\n
less.refreshStyles = loadStyles;\n
return less;\n
};\n
", "export default (less, options) => {\n
    const\n
    logLevel_debug = 4;\n
    const logLevel_info = 3;\n
    const logLevel_warn = 2;\n
    const logLevel_error = 1;\n
    // The amount of logging in the javascript console.\n
    // 3 - Debug, information and errors\n
    // 2 - Information and\n
    errors\n
    // 1 - Errors\n
    // 0 - None\n
    // Defaults to 2\n
    options.logLevel\n
    = typeof options.logLevel !== 'undefined' ? options.logLevel : (options.env === 'development' ? logLevel_info :\n
    logLevel_error);\n
    if (!options.loggers) {\n
        options.loggers = [{\n
            debug: function(msg) {\n
            if (options.logLevel >= logLevel_debug) {\n
                console.log(msg);\n
            }\n
            },\n
            info:\n
            function(msg) {\n
                if (options.logLevel >= logLevel_info) {\n
                    console.log(msg);\n
                }\n
            },\n
            warn: function(msg) {\n
                if (options.logLevel >= logLevel_warn) {\n
                console.warn(msg);\n
            }\n
            },\n
            error: function(msg) {\n
                if (options.logLevel >=\n
                logLevel_error) {\n
                    console.error(msg);\n
                }\n
            }\n
        }];\n
        for (let i = 0; i <\n
        options.loggers.length; i++) {\n
            less.logger.addListener(options.loggers[i]);\n
        }\n
    };\n
    // Cache system is a bit outdated and could do with work\n
    export default (window, options, logger) =>\n
    {\n
        let cache = null;\n
        if (options.env !== 'development') {\n
            try {\n
                cache = (typeof\n
                window.localStorage === 'undefined') ? null : window.localStorage;\n
            } catch (_)\n
            {}\n
        }\n
        return {\n
        setCSS: function(path, lastModified, modifyVars, styles) {\n
            if (cache) {\n
                logger.info(` saving\n
            ${path} to cache.`);\n
                try {\n
                    cache.setItem(path, styles);\n
                    cache.setItem(`${path}:timestamp`, lastModified);\n
                    if (modifyVars) {\n
                    cache.setItem(`${path}:vars`, JSON.stringify(modifyVars));\n
                }\n
            } catch (e) {\n
                //\n
                TODO - could do with adding more robust error handling\n
                logger.error(` failed to save \"${path}\" to\n
            local storage for caching.`);\n
            }\n
        }\n
        },\n
        getCSS: function(path, webInfo, modifyVars) {\n
            const css = cache &&\n
            cache.getItem(path);\n
            const timestamp = cache &&\n
            cache.getItem(`${path}:timestamp`);\n
            let vars\n
            = cache &&\n
            cache.getItem(`${path}:vars`);\n
            modifyVars = modifyVars || {};\n
            vars = vars || \"{}\";\n
            // if not set, treat as the JSON representation of an empty object\n
            if (timestamp &&\n
            webInfo.lastModified\n
            &&\n
            (new Date(webInfo.lastModified).valueOf() ===\n
            new Date(timestamp).valueOf())\n
            &&\n
            JSON.stringify(modifyVars) === vars) {\n
                // Use local copy\n
                return css;\n
            }\n
        }\n
    };;\n
};\n
", "import functionRegistry from './../less/functions/function-registry';\n
export default () =>\n
{\n
    function imageSize() {\n
        throw {\n
            type: 'Runtime',\n
            message: 'Image size functions\n
        are not supported in browser version of less'\n
        };;\n
    }\n
    const imageFunctions = {\n
        'image-size':\n
        function(filePathNode) {\n
            imageSize(this, filePathNode);\n
            return -1;\n
        },\n
        'image-width':\n
        function(filePathNode) {\n
            imageSize(this, filePathNode);\n
            return -1;\n
        },\n
        'image-height':\n
        function(filePathNode) {\n
            imageSize(this, filePathNode);\n
            return -1;\n
        }\n
    };;\n
    functionRegistry.addMultiple(imageFunctions);\n
};;\n
", "names": ["extractId", "href", "replace", "addDataAttr", "option\n
s", "tag", "opt", "dataset", "hasOwnProperty", "JSON", "parse", "_", "document", "styles", "sheet", "id", "title", "utils.extract\n
Id", "oldStyleNode", "getElementById", "keepOldStyleNode", "styleNode", "createElement", "setAttribute", "media", "st\n
yleSheet", "appendChild", "createTextNode", "childNodes", "length", "firstChild", "nodeValue", "head", "getElementsBy\n
TagName", "nextEl", "nextSibling", "parentNode", "insertBefore", "removeChild", "cssText", "e", "Error", "window", "scr\n
ipts", "currentScript", "extendStatics", "d", "b", "Object", "setPrototypeOf", "__proto__", "Array", "p", "__extends", "_", "t

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his", "constructor", "prototype", "create", "\_\_spreadArrays", "s", "i", "il", "arguments", "r", "k", "a", "j", "jl", "aliceblue", "antiquewhite", "aqua", "aquamarine", "azure", "beige", "bisque", "black", "blanchedalmond", "blue", "blueviolet", "brown", "burlywood", "cadetblue", "chartreuse", "chocolate", "coral", "cornflowerblue", "cornsilk", "crimson", "cyan", "darkblue", "darkcyan", "darkgoldenrod", "darkgray", "darkgrey", "darkgreen", "darkkhaki", "darkmagenta", "darkolivegreen", "darkorange", "darkorchid", "darkred", "darksalmon", "darkseagreen", "darkslateblue", "darkslategray", "darkslategrey", "darkturquoise", "darkviolet", "deeppink", "deepskyblue", "dimgray", "dimgrey", "dodgerblue", "firebrick", "floralwhite", "forestgreen", "fuchsia", "gainsboro", "ghostwhite", "gold", "goldenrod", "gray", "grey", "green", "greenyellow", "honeydew", "hotpink", "indianred", "indigo", "ivory", "khaki", "lavender", "lavenderblush", "lawngreen", "lemonchiffon", "lightblue", "lightcoral", "lightcyan", "lightgoldenrodyellow", "lightgray", "lightgrey", "lightgreen", "lightpink", "lightsalmon", "lightseagreen", "lightskyblue", "lightslategray", "lightslategrey", "lightsteelblue", "lightyellow", "lime", "limegreen", "linen", "magenta", "maroon", "mediumaquamarine", "mediumblue", "mediumorchid", "mediumpurple", "mediumseagreen", "mediumslateblue", "mediumspringgreen", "mediumturquoise", "mediumvioletred", "midnightblue", "mintcream", "mistyrose", "moccasin", "navajowhite", "navy", "oldlace", "olive", "olivedrab", "orange", "orangered", "orchid", "palegoldenrod", "palegreen", "paleturquoise", "palevioletred", "papayawhip", "peachpuff", "peru", "pink", "plum", "powderblue", "purple", "rebeccapurple", "red", "rosybrown", "royalblue", "saddlebrown", "salmon", "sandybrown", "seagreen", "seashell", "sienna", "silver", "skyblue", "slateblue", "slategray", "slategrey", "snow", "springgreen", "steelblue", "tan", "teal", "thistle", "tomato", "turquoise", "violet", "wheat", "white", "whitesmoke", "yellow", "yellowgreen", "m", "cm", "mm", "in", "px", "pt", "pc", "duration", "ms", "angle", "rad", "Math", "PI", "deg", "grad", "turn", "colors", "unitConversions", "parent", "visibilityBlocks", "undefined", "nodeVisible", "rootNode", "parsed", "self", "defineProperty", "get", "fileInfo", "getIndex", "Node", "nodes", "set", "node", "isArray", "forEach", "\_index", "\_fileInfo", "context", "strs", "genCSS", "add", "chunk", "index", "push", "isEmpty", "join", "output", "value", "visitor", "visit", "op", "precision", "numPrecision", "Number", "toFixed", "info", "compare", "type", "numericCompare", "Color", "rgb", "originalForm", "match", "map", "c", "parseInt", "alpha", "split", "clamp", "v", "max", "min", "toHex", "round", "toString", "luma", "g", "pow", "toCSS", "doNotCompress", "color", "colorFunction", "compress", "args", "fround", "indexOf", "concat", "toHSL", "h", "l", "toRGB", "splitcolor", "operate", "other", "\_operate", "toHSV", "toARGB", "x", "fromKeyword", 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,GAAM3jD,YAAYd,SAASe,eAAe+sB,KAG9C1sB,GAAGKN,YAAY2jD,KAERB54B,GAAGk8B,iCACLR8B,GAA  
Ki9B,iBAAmBj9B,GAAG08B,QAAqB,gBAAb18B,GAAG64B,KAAuB5D,KAAK+H,GAAiBA"} }

Found

in path(s):

\* /opt/cola/permits/1497046840\_1683055876.16148/0/less-3-13-1-1-tgz/package/dist/less.min.js.map

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\*

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```
***** */
/*! *****
```

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```
***** */
```

Found in path(s):

\* /opt/cola/permits/1497046840\_1683055876.16148/0/less-3-13-1-1-tgz/package/dist/less.js

# 1.1090 jackson-databind 2.12.7.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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## 1.1091 query-string 7.1.3

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## 1.1093 regenerate 1.4.2

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## 1.1099 camel-api 3.8.0

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\*/

/\*\*

\* Access the underlying concrete CamelClusterService implementation to provide access to further features.  
\*

\* @param clazz the proprietary class or interface of the underlying concrete CamelClusterService.

\* @return an instance of the underlying concrete CamelClusterService as the required type.

\*/

Found in path(s):

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/cluster/CamelClusterService.java

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\*/



```
/**
 * Get the {@link Component} as the specified type.
 *
 * @param type the proprietary class
or interface of the underlying concrete Component.
 * @return an instance of the underlying concrete Component as the required type.
 * @throws IllegalArgumentException if the component class can't be cast to required type,
 */
```

Found in path(s):

```
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/ComponentAware.java
```

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 */
```

```
/**
 * Access the underlying concrete ComponentExtension implementation to provide access to further features.
 *
 * @param clazz the proprietary class or interface of the underlying concrete ComponentExtension.
 * @return an instance of the underlying concrete ComponentExtension as the required type.
 */
```

Found in path(s):

```
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/component/extension/ComponentExtension.java
```

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Found in path(s):

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/AsyncCallback.java

\*

/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/RecoverableAggregationRepository.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ComponentNameResolver.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/EndpointInject.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/InternalProcessor.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/UriFactoryResolver.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/DataType.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Processor.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/annotations/Language.java

\*

/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/GroupAware.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/service/ServiceHelper.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ExchangeException.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ValidatorRegistry.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cloud/ServiceLoadBalancerFunction.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/CamelAuthorizationException.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Navigate.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-

jar/org/apache/camel/spi/DataFormatCustomizer.java  
\*  
/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/RuntimeExpressionException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/Transformer.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/component/extension/ComponentVerifierExtension.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/OnCamelContextInitializing.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/PackageScanResourceResolver.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/ValueHolder.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/RuntimeEndpointRegistry.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/ShutdownPrepared.java  
\*  
/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/StaticService.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/cloud/ServiceLoadBalancerFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/CamelContextCustomizer.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/CamelContextAware.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/cloud/ServiceDiscoveryAware.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/support/jsse/AliasedX509ExtendedKeyManager.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/ExpressionFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/RestBindingJaxbDataFormatFactory.java  
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/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/FactoryFinder.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/OnCamelContextStarting.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/cloud/ServiceChooserFactory.java  
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jar/org/apache/camel/spi/StateRepository.java  
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jar/org/apache/camel/spi/StreamCachingStrategy.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/StartupStep.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ApiEndpoint.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cloud/ServiceDefinition.java  
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/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/BeanInject.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ExecutorServiceManager.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/NamedNode.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ExchangeTimedOutException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/LifecycleStrategy.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Converter.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cluster/CamelClusterMember.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/FactoryFinderResolver.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/GlobalSSLContextParametersSupplier.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cloud/ServiceFilter.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/TrustManagersParameters.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ExchangeFormatter.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ExpressionEvaluationException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-

jar/org/apache/camel/health/HealthCheckFilter.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/InvokeOnHeader.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/ScheduledPollConsumerScheduler.java  
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jar/org/apache/camel/spi/ComponentResolver.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/Endpoint.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/UnitOfWork.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/BatchConsumer.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/NoTypeConversionAvailableException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/ProcessorFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/RestConfiguration.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/NoSuchPropertyException.java  
\*  
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jar/org/apache/camel/ErrorHandlerFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/health/HealthCheckRepository.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/ShutdownAware.java  
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jar/org/apache/camel/support/jsse/JsseParameters.java  
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jar/org/apache/camel/spi/CamelEvent.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/LanguageCustomizer.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/Predicate.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/IdAware.java  
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jar/org/apache/camel/spi/RoutePolicyFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/Service.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/CircuitBreakerConstants.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/HeadersMapFactory.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/SSLContextServerParameters.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ResolveEndpointFailedException.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/FallbackConverter.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Body.java  
 \*  
 /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/BrowsableEndpoint.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/HeaderFilterStrategy.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/SSLContextParameters.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ConfigurerResolver.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/catalog/LanguageValidationResult.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/RoutesBuilderLoader.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/PollingConsumer.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/PropertyConfigurer.java  
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 /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/AfterPropertiesConfigured.java  
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 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/RuntimeExchangeException.java  
 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/InterceptStrategy.java  
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 \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/annotations/Component.java  
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 /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/BeanRepository.java  
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/StreamCacheException.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/DeferServiceFactory.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/MessageHistoryFactory.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/OnCamelContextEvent.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/NoSuchBeanException.java

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/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/SuspendableService.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Handler.java

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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/NamespaceAware.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/annotations/CloudServiceFactory.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/FailedToCreateProducerException.java

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/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/CamelExchangeException.java

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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/SimpleExecutorService.java

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jar/org/apache/camel/BeanScope.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
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jar/org/apache/camel/spi/ErrorHandlerAware.java
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/opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/OnCamelContextStop.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/LogListener.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/Consumer.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/AsyncProcessor.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
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* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
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* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
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/opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
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\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/InterceptEndpointFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/spi/annotations/JdkService.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-  
jar/org/apache/camel/catalog/SuggestionStrategy.java

\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/NoSuchLanguageException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/IdempotentRepository.java  
\*  
/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ServiceStatus.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/EndpointUtilizationStatistics.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/IsSingleton.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cloud/ServiceFilterFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/catalog/JsonSchemaResolver.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/ManagementStrategy.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/StartupStepRecorder.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/Resource.java  
\*  
/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/TypeConverterExists.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/InvalidPropertyException.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/Metadata.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/OnCamelContextStopped.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/InternalProcessorFactory.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/AggregationStrategy.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/Ordered.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/InvokeOnHeaderStrategy.java  
\*  
/opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/DataFormatResolver.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/ProducerTemplate.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/CipherSuitesParameters.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/AsyncEndpoint.java  
\* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-

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jar/org/apache/camel/RoutesBuilder.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/GeneratedPropertyConfigurer.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/catalog/PropertiesValidationResult.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/Validator.java
*
/opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/HasGroup.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/RouteTemplateParameterSource.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/BindToRegistry.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/ExchangeProperty.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/EventFactory.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/HasCamelContext.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/Headers.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/PropertyConfigurerAware.java
*
/opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/RouteFactory.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/CamelUnitOfWorkException.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/Component.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/ModelJAXBContextFactory.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/ManagementObjectStrategy.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/Route.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/StaticExpression.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/cloud/ServiceExpressionFactory.java
*
/opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/PropertyConfigurerGetter.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/HasId.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/NormalizedEndpointUri.java

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```
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/spi/ReactiveExecutor.java
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/ManagementStatisticsLevel.java
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*/
/**
 * Access the underlying concrete CamelClusterView implementation to provide access to further features.
 *
 *
 * @param clazz the proprietary class or interface of the underlying concrete CamelClusterView.
 * @return an instance of the underlying concrete CamelClusterView as the required type.
 */
```

```
Found in path(s):
* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/cluster/CamelClusterView.java
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```

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```

```

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* limitations under the License.
*/
/**
 * Returns the list of configurers to apply to an { @link SSLSocketFactory } in order to fully configure it in
 * compliance
with the provided configuration options. The configurers are to be applied in the order in which they
 * appear in the list.
 * <p/>
 * It is preferred to use { @link #getSSLSocketFactorySSLSocketConfigurers(SSLContext) } instead of this
method as
 * { @code SSLSocketFactory } does not contain any configuration options that are non-proprietary.
 *
 * @param context the context that serves as the factory for { @code SSLSocketFactory } instances
 *
 * @return the needed configurers
 *
 * @see #getSSLSocketFactorySSLSocketConfigurers(SSLContext)
*/
/**
 * Returns the list of configurers to apply to an { @link SSLServerSocketFactory } in order to fully configure it in
 * compliance with the provided configuration options. The configurers are to be applied in the order in which they
 * appear in the list.
 * <p/>
 * It is preferred to use { @link #getSSLServerSocketFactorySSLServerSocketConfigurers(SSLContext) }
instead of this
 * method as { @code SSLServerSocketFactory } does not contain any configuration options that are non-
proprietary.
 *
 * @param context the context that serves as the factory for { @code SSLServerSocketFactory } instances
 *
 * @return the needed configurers
 *
 * @see #getSSLServerSocketFactorySSLServerSocketConfigurers(SSLContext)
*/

```

Found in path(s):

```

* /opt/cola/permits/1537034170_1674099816.8233342/0/camel-api-3-8-0-sources-1-
jar/org/apache/camel/support/jsse/BaseSSLContextParameters.java

```

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Found in path(s):

- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/support/jsse/package.html
- \*
- /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/META-INF/maven/org.apache.camel/camel-api/pom.xml
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/spi/package.html
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/catalog/package.html
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cluster/package.html
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/component/extension/package.html
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/health/package.html
- \* /opt/cola/permits/1537034170\_1674099816.8233342/0/camel-api-3-8-0-sources-1-jar/org/apache/camel/cloud/package.html

## 1.1100 camel-base 3.8.0

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\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/converter/TypeConvertersLoader.java

\*

/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/converter/ObjectConverter.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/DefaultPropertiesParser.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/CamelContextStartingEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/converter/BaseTypeConverterRegistry.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/StepFailedEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/converter/CamelConverter.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/converter/SQLConverter.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/ExchangeSendingEvent.java

\*

/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/PropertiesLookup.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/converter/TypeConvertersPackageScanClassResolver.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/RouteStartedEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/EnvPropertiesFunction.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/ServicePropertiesFunction.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/converter/EnumTypeConverter.java

\*

/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/RouteRemovedEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/FilePropertiesSource.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/CamelContextInitializedEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/CamelContextStartedEvent.java

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/StepCompletedEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/converter/IOConverter.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/CamelContextRoutesStoppingEvent.java  
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 /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 jar/org/apache/camel/impl/event/ExchangeCreatedEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 jar/org/apache/camel/impl/converter/InstanceMethodTypeConverter.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/converter/CoreTypeConverterRegistry.java  
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 /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/CamelContextResumedEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/RouteAddedEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/RouteStartingEvent.java  
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 jar/org/apache/camel/impl/converter/AsyncProcessorTypeConverter.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/CamelContextResumingEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/ServiceStartupFailureEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
 jar/org/apache/camel/impl/event/CamelContextSuspendingEvent.java  
 \* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-



jar/org/apache/camel/impl/event/CamelContextStoppedEvent.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/impl/converter/FastAnnotationTypeConverterLoader.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/component/properties/ServiceHostPropertiesFunction.java  
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/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/converter/NIOConverter.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/impl/converter/ArrayTypeConverter.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/impl/event/CamelContextRoutesStoppedEvent.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/impl/scan/CompositePackageScanFilter.java  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
jar/org/apache/camel/impl/converter/InstanceMethodFallbackTypeConverter.java  
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/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-  
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jar/org/apache/camel/component/properties/LocationPropertiesSource.java  
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jar/org/apache/camel/impl/event/DefaultEventFactory.java  
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jar/org/apache/camel/impl/scan/InvertingPackageScanFilter.java

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/opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/event/ExchangeFailureHandledEvent.java  
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Found in path(s):

\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/META-INF/maven/org.apache.camel/camel-base/pom.xml  
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\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/scan/package.html  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/impl/converter/package.html  
\* /opt/cola/permits/1537034256\_1674099864.7550108/0/camel-base-3-8-0-sources-1-jar/org/apache/camel/component/properties/package.html  
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\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultAsyncProcessorAwaitManager.java  
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/opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/LimitedPollingConsumerPollStrategy.java

\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultCamelBeanPostProcessor.java

\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultManagementNameStrategy.java

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\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultValidatorRegistry.java

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\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultUriFactoryResolver.java

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\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/debugger/BacklogTracer.java

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/opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DefaultUnitOfWork.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DefaultUnitOfWorkFactory.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/ValidatorKey.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/EndpointKey.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DurationRoutePolicyFactory.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/debugger/BacklogDebugger.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/CamelPostProcessorHelper.java  
\*  
/opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DurationRoutePolicy.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/AbstractDynamicRegistry.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DefaultStreamCachingStrategy.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/DefaultServiceBootstrapCloseable.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/SubscribeMethodProcessor.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/engine/BootstrapConfigurerResolver.java

\*  
/opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultInterceptEndpointFactory.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DeferServiceStartupListener.java  
\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/engine/DefaultRouteStartupOrder.java  
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\* /opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/META-INF/maven/org.apache.camel/camel-base-engine/pom.xml  
\*  
/opt/cola/permits/1537034307\_1674099881.410027/0/camel-base-engine-3-8-0-sources-1-jar/org/apache/camel/impl/debugger/package.html

# 1.1102 camel-core-engine 3.8.0

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\*

/opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-jar/org/apache/camel/impl/package.html

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\* /opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-jar/org/apache/camel/impl/RouteIdFactory.java

\*

/opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-jar/org/apache/camel/impl/DefaultModelReifierFactory.java

\* /opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-jar/org/apache/camel/impl/lw/LightweightCamelContext.java

\* /opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-jar/org/apache/camel/impl/lw/LightweightRuntimeCamelContext.java

\* /opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-

jar/org/apache/camel/impl/DefaultCamelContext.java  
\* /opt/cola/permits/1537034631\_1674099966.0732718/0/camel-core-engine-3-8-0-sources-1-  
jar/org/apache/camel/impl/DefaultModel.java

# 1.1103 camel-core-model 3.8.0

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# 1.1104 camel-core-processor 3.8.0

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```
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/loadbalancer/package.html
*
/opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/aggregate/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/saga/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/transformer/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/validator/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/META-
INF/maven/org.apache.camel/camel-core-processor/pom.xml
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/errorhandler/package.html
*
/opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/resequencer/package.html
* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
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\*

/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/resequencer/ElementComparator.java

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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/ThrottlerRejectedExecutionException.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/errorhandler/RedeliveryPolicy.java

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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/saga/NeverSagaProcessor.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/Throttler.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/FinallyProcessor.java

\*

/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/loadbalancer/LoadBalancer.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/saga/NotSupportedSagaProcessor.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-



jar/org/apache/camel/processor/SendDynamicAwareResolver.java  
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jar/org/apache/camel/processor/StepProcessor.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/InterceptEndpointProcessor.java  
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jar/org/apache/camel/processor/idempotent/IdempotentOnCompletion.java  
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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/ClaimCheckAggregationStrategy.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
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jar/org/apache/camel/processor/aggregate/ClosedCorrelationKeyException.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/loadbalancer/WeightedRandomLoadBalancer.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
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jar/org/apache/camel/processor/RemovePropertyProcessor.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/loadbalancer/TopicLoadBalancer.java  
\*  
/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/transformer/ProcessorTransformer.java  
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jar/org/apache/camel/processor/aggregate/GroupedMessageAggregationStrategy.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-  
jar/org/apache/camel/processor/RemovePropertiesProcessor.java  
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jar/org/apache/camel/processor/SortProcessor.java  
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jar/org/apache/camel/processor/loadbalancer/LoadBalancerSupport.java

\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/loadbalancer/StickyLoadBalancer.java  
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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/RemoveHeaderProcessor.java  
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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/saga/SagaPropagation.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/errorhandler/ExceptionPolicyStrategy.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/InterceptSendToEndpointProcessor.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/resequencer/MessageRejectedException.java  
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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/DefaultDeferServiceFactory.java  
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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/aggregate/MemoryAggregationRepository.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/errorhandler/ExceptionPolicyKey.java  
\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/DefaultAnnotationBasedProcessorFactory.java  
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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/saga/SagaProcessorBuilder.java  
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 \* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-

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jar/org/apache/camel/processor/aggregate/AggregationStrategyParameterInfo.java
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jar/org/apache/camel/processor/aggregate/AggregateController.java

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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/resequencer/SequenceSender.java  
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/opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/ClaimCheckProcessor.java  
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\* /opt/cola/permits/1537034779\_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-jar/org/apache/camel/processor/aggregate/UseOriginalAggregationStrategy.java  
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* /opt/cola/permits/1537034779_1674100016.4263077/0/camel-core-processor-3-8-0-sources-1-
jar/org/apache/camel/processor/saga/RequiredSagaProcessor.java
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jar/org/apache/camel/processor/ThrowExceptionProcessor.java
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# 1.1105 camel-core-reifier 3.8.0

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Found in path(s):

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* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/META-
INF/maven/org.apache.camel/camel-core-reifier/pom.xml
```

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/transformer/TransformerReifier.java

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/opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/dataformat/TarFileDataFormatReifier.java

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/dataformat/UnivocityAbstractDataFormatReifier.java

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/loadbalancer/CustomLoadBalancerReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/ProcessorReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/RouteReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/dataformat/GrokDataFormatReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/RecipientListReifier.java

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/opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/dataformat/JacksonXMLDataFormatReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/CatchReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/SamplingReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/language/XQueryExpressionReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/SetPropertyReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/validator/EndpointValidatorReifier.java

\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/dataformat/FhirDataFormatReifier.java

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/OnCompletionReifier.java

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/RemoveHeadersReifier.java

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\* /opt/cola/permits/1537034866\_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-jar/org/apache/camel/reifier/loadbalancer/RoundRobinLoadBalancerReifier.java

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jar/org/apache/camel/reifier/dataformat/PGPDataFormatReifier.java
* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
jar/org/apache/camel/reifier/LoopReifier.java
* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
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/opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
jar/org/apache/camel/reifier/transformer/CustomTransformeReifier.java
* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
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* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
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* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
jar/org/apache/camel/reifier/dataformat/ZipDataFormatReifier.java
* /opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
jar/org/apache/camel/reifier/dataformat/TidyMarkupDataFormatReifier.java
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/opt/cola/permits/1537034866_1674100032.4778814/0/camel-core-reifier-3-8-0-sources-1-
jar/org/apache/camel/reifier/ClaimCheckReifier.java

```

# 1.1106 camel-endpointdsl 3.8.0

## 1.1106.1 Available under license :

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```

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- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AtomixQueueEndpointBuilderFactory.java
- \*
- /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/InfluxDbEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/PubNubEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MailEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ClassEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KubernetesReplicationControllersEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DdbEndpointBuilderFactory.java
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- /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/FopEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SpringLdapEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/LuceneEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ServiceNowEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DigitalSignatureEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Athena2EndpointBuilderFactory.java
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- /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AvroEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Translate2EndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/EhcacheEndpointBuilderFactory.java
- \* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GraphQLEndpointBuilderFactory.java
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/OptaPlannerEndpointBuilderFactory.java  
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jar/org/apache/camel/builder/endpoint/dsl/DebeziumPostgresEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/Sns2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/SolrEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GoogleSheetsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MinaEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SqlEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/StAXEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/LanguageEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AtlasMapEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KubernetesConfigMapsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ServerEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KubernetesNodesEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KeystoneEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GoogleCalendarStreamEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KinesisFirehoseEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KafkaEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ChatScriptEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/XJEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DozerEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/igniteMessagingEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MsvEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ECSEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MyBatisBeanEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/StitchEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JsonataEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-

jar/org/apache/camel/builder/endpoint/dsl/KubernetesSecretsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/VmEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/ConsulEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/ServletEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/TikaEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/RefEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-

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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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jar/org/apache/camel/builder/endpoint/dsl/XChangeEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/RedisEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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jar/org/apache/camel/builder/endpoint/dsl/SedaEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/SesEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/JsonValidatorEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/LumberjackEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/KameletEndpointBuilderFactory.java

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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JpaEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/LdapEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SnsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CassandraEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/EventHubsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/PdfEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/RabbitMQEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/FacebookEndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CwEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/VelocityEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ScpEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CoAPEndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ZooKeeperEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/BraintreeEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/FileWatchEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DirectVmEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AWS2EC2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KMSEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SpringRabbitMQEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MongoDbEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CaffeineLoadCacheEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Ddb2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GoraEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/HazelcastSedaEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GitHubEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Jt400EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JGroupsRaftEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/STS2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/IPFSEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/HdfsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CronEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CouchDbEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-



jar/org/apache/camel/builder/endpoint/dsl/MiloServerEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/GoogleMailEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/MQ2EndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/ExecEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/AtomixValueEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/KubernetesServiceAccountsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-

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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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jar/org/apache/camel/builder/endpoint/dsl/WeatherEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DataFormatEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DdbStreamEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/BeanEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/StringTemplateEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JcrEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SshEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AtomixMultiMapEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JsltEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/KuduEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AWS2S3EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/EventEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Lambda2EndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Cw2EndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/WorkdayEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/PlatformHttpEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SpringWebserviceEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/DropboxEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MvelEndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/BlobServiceEndpointBuilderFactory.java

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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JoltEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GrpcEndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/TimerEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JdbcEndpointBuilderFactory.java  
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/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/HBaseEndpointBuilderFactory.java  
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\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GoogleCalendarEndpointBuilderFactory.java  
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\*  
/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/CryptoCmsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/RestOpenApiEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/GitEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/EventbridgeEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/SqsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/ValidatorEndpointBuilderFactory.java  
\*  
/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/RobotFrameworkEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/HazelcastTopicEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/StreamEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/Kinesis2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/JMXEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/NovaEndpointBuilderFactory.java  
\*  
/opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/MiloClientEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/OAIPMHEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/AS2EndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/org/apache/camel/builder/endpoint/dsl/igniteCacheEndpointBuilderFactory.java

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 */
/**
```

```
 * Use this option to force disabling time to live. For example when you
 * do request/reply over JMS, then
```

Camel will by default use the

```
 * requestTimeout value as time to live on the message being sent. The
 * problem is that the sender and receiver systems have to have their
 * clocks synchronized, so they are in sync. This is not always so easy
 * to archive. So you can use disableTimeToLive=true to not set a time
 * to live value on the sent message. Then the message will not expire
 * on the receiver system. See below in section About time to live for
 * more details.
```

```
 *
 * The option is a: <code>boolean</code> type.
```

```
 * Default: false
```

```
 * Group: producer (advanced)
```

```
 *
 * @param disableTimeToLive the value to set
```

```
 * @return the dsl builder
```

```
 */
```

Found in path(s):

```
 * /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-
jar/org/apache/camel/builder/endpoint/dsl/Sjms2EndpointBuilderFactory.java
```

```
 * /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-
jar/org/apache/camel/builder/endpoint/dsl/ActiveMQEndpointBuilderFactory.java
```

```
 *
 /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-
jar/org/apache/camel/builder/endpoint/dsl/SjmsEndpointBuilderFactory.java
```

```
 * /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-
```

jar/org/apache/camel/builder/endpoint/dsl/JmsEndpointBuilderFactory.java  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/AMQPEndpointBuilderFactory.java  
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 */
/**
 * The exec protection level PROT command. C - Clear S - Safe(SSL
 * protocol only) E - Confidential(SSL protocol
 * only) P - Private.
 *
 * The option is a: <code>java.lang.String</code> type.
 *
 * Group: security
 *
 * @param execProt the value to set
 * @return the dsl builder
 */
```

Found in path(s):  
\* /opt/cola/permits/1537035153\_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-  
jar/org/apache/camel/builder/endpoint/dsl/FtpsEndpointBuilderFactory.java  
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```

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*/
/**
 * To use a shared Netty HTTP server. See Netty HTTP Server Example for
 * more details.
 *
 * The option is a:
 * <code>org.apache.camel.component.netty.http.NettySharedHttpServer</code> type.
 *
 * Group: consumer (advanced)
 *
 * @param nettySharedHttpServer the value to set
 * @return the dsl builder
 */

```

Found in path(s):

```

* /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-
jar/org/apache/camel/builder/endpoint/dsl/NettyHttpEndpointBuilderFactory.java

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```

* /opt/cola/permits/1537035153_1674100122.6871197/0/camel-endpointdsl-3-8-0-sources-jar/META-
INF/maven/org.apache.camel/camel-endpointdsl/pom.xml

```



# 1.1107 camel-management-api 3.8.0

## 1.1107.1 Available under license :

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\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/package.html

\*

/opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/META-INF/maven/org.apache.camel/camel-management-api/pom.xml

\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/package.html

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- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedSamplingThrottlerMBean.java
- \*
- /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedAggregateProcessorMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedLogMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedSuspendableRouteMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/NotificationSender.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedThrottlingInflightRoutePolicyMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedRouteMBean.java
- \*
- /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedPollEnricherMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedOperation.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedRemoveHeadersMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedProducerCacheMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedRollbackMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedChoiceMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedRecipientListMBean.java
- \*
- /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedConsumerCacheMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedInstance.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedNotifications.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedMarshalMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedStepMBean.java
- \* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-

```

jar/org/apache/camel/api/management/mbean/ManagedStopMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedDynamicRouterMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedIdempotentConsumerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedFilterMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRuntimeEndpointRegistryMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedTransformMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSetHeaderMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedValidateMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedMulticastMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedClusterServiceMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedPerformanceCounterMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedUnmarshalMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedServiceMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedStickyLoadBalancerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedBacklogTracerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedBeanIntrospectionMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedResourceEndpointMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/BacklogTracerEventMessage.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedProcessorMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedThroughputLoggerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/NotificationSenderAware.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRemovePropertiesMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-

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jar/org/apache/camel/api/management/mbean/ManagedDelayerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedThrowExceptionMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedAsyncProcessorAwaitManagerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedTopicLoadBalancerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSendProcessorMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRemovePropertyMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedThrottlerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedResequencerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedInflightRepositoryMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRandomLoadBalancerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/RouteError.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRoundRobinLoadBalancerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedThrottlingExceptionRoutePolicyMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedTracerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRestRegistryMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedFailoverLoadBalancerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedWireTapMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedTransformerRegistryMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSendDynamicProcessorMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRemoveHeaderMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSetBodyMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/ManagedAttribute.java
*

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/opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedThreadsMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedSetExchangePatternMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedExtendedInformation.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedResource.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedValidatorRegistryMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedEndpointRegistryMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedCamelContext.java  
\*  
/opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedStreamCachingStrategyMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedSplitterMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedClaimCheckMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedBeanMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedCamelContextMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedConvertBodyMBean.java  
\*  
/opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedLoopMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedProcessMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedBacklogDebuggerMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedCounterMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/ManagedNotification.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedScriptMBean.java  
\*  
/opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedCamelHealthMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedEndpointMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-jar/org/apache/camel/api/management/mbean/ManagedThreadPoolMBean.java  
\* /opt/cola/permits/1537038220\_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-

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jar/org/apache/camel/api/management/mbean/ManagedTypeConverterRegistryMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSupervisingRouteControllerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedConsumerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ComponentVerifierExtension.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedWeightedBalancerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSchedulePollConsumerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRoutingSlipMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/JmxSystemPropertyKeys.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedBrowsableEndpointMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedRouteControllerMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedComponentMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedDataFormatMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedProducerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedEnricherMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/JmxNotificationBroadcasterAware.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedSetPropertyMBean.java
*
/opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/ManagedCustomLoadBalancerMBean.java
* /opt/cola/permits/1537038220_1674100236.4020932/0/camel-management-api-3-8-0-sources-1-
jar/org/apache/camel/api/management/mbean/CamelOpenMBeanTypes.java

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## 1.1108 camel-rabbitmq 3.8.0

### 1.1108.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-jar/META-INF/maven/org.apache.camel/camel-rabbitmq/pom.xml

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Found in path(s):

\* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-jar/org/apache/camel/component/rabbitmq/RabbitMQProducer.java

\*

/opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-jar/org/apache/camel/component/rabbitmq/reply/ReplyHolder.java

\* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-jar/org/apache/camel/component/rabbitmq/RabbitMQComponent.java

\* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-jar/org/apache/camel/component/rabbitmq/pool/PoolableChannelFactory.java

\* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQEndpoint.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/ReplyManager.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/ReplyToType.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQConstants.java  
 \*  
 /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQMessageConverter.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/TemporaryQueueReplyHandler.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQConsumer.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/ReplyHandler.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/UseMessageIdAsCorrelationIdMessageSentCallback.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/CorrelationTimeoutMap.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/MessageSentCallback.java  
 \*  
 /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQSendDynamicAware.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQConnectionFactorySupport.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/TemporaryQueueReplyManager.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitConsumer.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQMessagePublisher.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/QueueReplyHandler.java  
 \*  
 /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQHeaderFilterStrategy.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/reply/ReplyManagerSupport.java  
 \* /opt/cola/permits/1537038304\_1674100265.6179967/0/camel-rabbitmq-3-8-0-sources-  
 jar/org/apache/camel/component/rabbitmq/RabbitMQDeclareSupport.java

## 1.1109 camel-support 3.8.0



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Found in path(s):

\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/CamelContextHelper.java  
\*  
/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/EventDrivenPollingConsumer.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/component/ResourceEndpoint.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/AsyncProcessorSupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/builder/Namespaces.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/MessageHelper.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/ReactiveHelper.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/ScriptHelper.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/saga/CamelSagaStep.java  
\*  
/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/builder/BinaryPredicateSupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/converter/stream/StreamCacheConverter.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/PropertyBindingSupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-

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jar/org/apache/camel/support/cache/EventNotifierCallback.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/NoSuchOptionException.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/ExpressionListComparator.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/converter/stream/InputStreamCache.java
*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/MessageSupport.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/cache/PollingConsumerServicePool.java
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jar/org/apache/camel/support/ChildServiceSupport.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/management/NotificationSenderAdapter.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/IllegalOptionException.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/converter/stream/ByteArrayInputStreamCache.java
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jar/org/apache/camel/support/builder/ExpressionBuilder.java
*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/DefaultComponentVerifierExtension.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/InputStreamIterator.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/processor/idempotent/FileIdempotentRepository.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/EndpointUriFactorySupport.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultComponent.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/PropertyNamesInterceptor.java
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/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/processor/DelegateSyncProcessor.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/AbstractApiProducer.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/converter/stream/CachedByteArrayOutputStream.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/IntrospectionSupport.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/TimeoutMapEntry.java

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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultScheduledPollConsumer.java
*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/ApiConsumerHelper.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/startup/DefaultStartupStepRecorder.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/AbstractApiComponent.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/ApiMethodPropertiesHelper.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/NoLock.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/builder/TokenXMLExpressionIterator.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/ExchangeHelper.java
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/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/jndi/JndiBeanRepository.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/GroupIterator.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultRegistry.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/language/AnnotationExpressionFactory.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/builder/PredicateBuilder.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/AsyncCallbackToCompletableFutureAdapter.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultPollingConsumerPollStrategy.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/RestComponentHelper.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/ApiCollection.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/AbstractApiConfiguration.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultEndpointUtilizationStatistics.java
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/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/DefaultLRUCacheFactory.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/processor/CamelLogProcessor.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/GZIPHelper.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/AsyncProcessorHelper.java  
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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/SimpleEventNotifierSupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/language/DefaultAnnotationExpressionFactory.java  
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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/component/AbstractApiEndpoint.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/saga/InMemorySagaService.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/LifecycleStrategySupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/saga/CamelSagaCoordinator.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/jndi/CamelSingletonInitialContextFactory.java  
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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/component/extension/verifier/OptionsGroup.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/GroupTokenIterator.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/ResourceHelper.java  
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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/throttling/ThrottlingExceptionHalfOpenHandler.java  
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/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/saga/CamelSagaService.java  
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jar/org/apache/camel/support/component/ApiMethodHelper.java
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jar/org/apache/camel/support/DefaultInterceptSendToEndpoint.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/ComponentVerifierException.java
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
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* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/NormalizedUri.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/cache/ProducerServicePool.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/PropertyConfigurerSupport.java
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/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/ResultBuilder.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/converter/stream/FileInputStreamCache.java

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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/org/apache/camel/support/component/ApiMethod.java  
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\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/DefaultExchange.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/cluster/ClusterServiceSelectors.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/CamelObjectInputStream.java  
\*  
/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/component/PropertiesInterceptor.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/TypeConverterSupport.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/ScheduledPollEndpoint.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/builder/OutputStreamBuilder.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/component/extension/verifier/CatalogVerifierCustomizer.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/component/extension/metadata/DefaultMetaData.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/DefaultAsyncProducer.java  
\*  
/opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/cluster/AbstractCamelClusterView.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/component/ResultInterceptor.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/processor/DelegateProcessor.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/jndi/CamelInitialContextFactory.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/processor/ConvertBodyProcessor.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/management/MixinRequiredModelMBean.java  
\* /opt/cola/permits/1537042201\_1674100404.5382726/0/camel-support-3-8-0-sources-1-  
jar/org/apache/camel/support/HeaderSelectorProducer.java  
\*

```
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/DefaultEndpoint.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/cache/EmptyProducerCache.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/LRUCacheFactory.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/RoutesBuilderLoaderSupport.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/ProcessorEndpoint.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/RestConsumerContextPathMatcher.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/processor/ThroughputLogger.java
*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/ApiName.java
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/ArgumentSubstitutionParser.java
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```
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/saga/package.html
*
/opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/component/package.html
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/converter/stream/package.html
```

```
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/metadata/package.html
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-jar/META-
INF/maven/org.apache.camel/camel-support/pom.xml
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/component/extension/verifier/package.html
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/jndi/package.html
* /opt/cola/permits/1537042201_1674100404.5382726/0/camel-support-3-8-0-sources-1-
jar/org/apache/camel/support/package.html
```

## 1.1110 camel-util 3.8.0

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```
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/package.html
*
/opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/META-
INF/maven/org.apache.camel/camel-util/pom.xml
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/package.html
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/backoff/package.html
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/package.html
```

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```
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/PropertiesHelper.java
*
 /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/SkipIterator.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/RejectableFutureTask.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/Scanner.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/CollectionHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/DoubleMap.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/backoff/BackOff.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingBiFunction.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingBiConsumer.java
*
 /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/ObjectHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/ReferenceCount.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/URIScanner.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/KeyValueHolder.java
```

\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/concurrent/SubmitOrderedCompletionService.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/ThrowingRunnable.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/FilterIterator.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/Predicates.java  
\*  
/opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/concurrent/SynchronousExecutorService.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/concurrent/LockHelper.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/InetAddressUtil.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/IOHelper.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/CastUtils.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/StreamUtils.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/Suppliers.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/backoff/BackOffTimerTask.java  
\*  
/opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/CaseInsensitiveMap.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/AntPathMatcher.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/HostUtils.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/UnsafeUriCharactersEncoder.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/concurrent/RejectableScheduledThreadPoolExecutor.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/Bindings.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/ThrowingTriConsumer.java  
\*  
/opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/TimeUtils.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/concurrent/SizedScheduledExecutorService.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-jar/org/apache/camel/util/function/TriConsumer.java  
\* /opt/cola/permits/1537042640\_1674100469.1058054/0/camel-util-3-8-0-sources-1-

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jar/org/apache/camel/util/Pair.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/OgnlHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/RejectableThreadPoolExecutor.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/CamelURIParser.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/OrderedProperties.java
*
/opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/URISupport.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/backoff/BackOffTimer.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/FilePathResolver.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/FileUtil.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/IntrospectionSupport.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/UnitUtils.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/StringHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/ReflectionHelper.java
*
/opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/StringQuoteHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/SensitiveUtils.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/ThreadHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/Rejectable.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/AsyncCompletionService.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/BufferCaster.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingConsumer.java
*
/opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingToLongFunction.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingFunction.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/StopWatch.java

```

```
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/CamelThreadFactory.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingHelper.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/concurrent/ThreadPoolRejectedPolicy.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/function/ThrowingSupplier.java
* /opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/CollectionStringBuffer.java
*
/opt/cola/permits/1537042640_1674100469.1058054/0/camel-util-3-8-0-sources-1-
jar/org/apache/camel/util/PackageHelper.java
```

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## 1.1112 punycode 2.3.0

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## 1.1116 wmf 1.0.2

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# 1.1117 internal-slot 1.0.5

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# 1.1118 minimalist 1.2.8

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# 1.1119 babel-plugin-proposal-optional-chaining 7.21.0

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## 1.1121 css-to-react-native 3.2.0

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## 1.1122 classmate 1.0.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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# 1.1123 spdX-correct 3.2.0

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# 1.1124 checker-qual 3.31.0

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# 1.1125 spdx-license-ids 3.0.13

## 1.1125.1 Available under license :

```
# spdx-license-ids
```

```
[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)
```

```
[![Github Actions](https://action-badges.now.sh/jslicense/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/jslicense/spdx-license-ids)
```

A list of [SPDX license](https://spdx.org/licenses/) identifiers

```
## Installation
```

```
[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or  
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):
```

```
...
```

```
npm install spdx-license-ids
```

```
...
```

```
## [Node.js](https://nodejs.org/) API
```

```
### require('spdx-license-ids')
```

```
Type: `string[]`
```

All license IDs except for the currently deprecated ones.

```
```javascript
```

```
const ids = require('spdx-license-ids');
```

```
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
```

```
ids.includes('CC-BY-1.0');
```

```

//=> true

ids.includes('GPL-3.0'); //=> false
...

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
...

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```

## 1.1126 handlebars-loader 1.7.3

### 1.1126.1 Available under license :

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## 1.1127 regexpu-core 5.3.2

### 1.1127.1 Available under license :

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## 1.1128 array-buffer-byte-length 1.0.0

### 1.1128.1 Available under license :

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## 1.1129 grpc-protobuf 1.9.0

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Found in path(s):

\* /opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java  
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Found in path(s):

\* /opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/StatusProto.java  
\* /opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java  
\* /opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/package-info.java  
\*  
/opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java  
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```

Found in path(s):

```
* /opt/cola/permits/1616858697_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-
jar/io/grpc/protobuf/ProtoUtils.java
```

## 1.1130 grpc-netty 1.9.0

### 1.1130.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/MaxConnectionIdleManager.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/KeepAliveEnforcer.java
```

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Found in path(s):

\* /opt/cola/permits/1628852058\_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-  
jar/io/grpc/netty/GrpcHttp2HeadersUtils.java

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```
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/GrpcHttp2ConnectionHandler.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/GracefulCloseCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/ClientTransportLifecycleManager.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/StreamIdHolder.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/InternalHandlerSettings.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/InternalNettyServerBuilder.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/HandlerSettings.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/InternalNettyChannelBuilder.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/ForcefulCloseCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/AbstractHttp2Headers.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyHandlerSettings.java
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```
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
```



```
jar/io/grpc/netty/NettyClientTransport.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyClientHandler.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/SendResponseHeadersCommand.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NegotiationType.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/CreateStreamCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/CancelClientStreamCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServerHandler.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/Utils.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyReadableBuffer.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServerBuilder.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServerStream.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyChannelBuilder.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/SendGrpcFrameCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServerTransport.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServer.java
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```
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyWritableBufferAllocator.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/package-
info.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyChannelProvider.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/CancelServerStreamCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/AbstractNettyHandler.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/JettyTlsUtil.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyServerProvider.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/WriteQueue.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/NettyClientStream.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/GrpcSslContexts.java
*
/opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/ProtocolNegotiators.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/SendPingCommand.java
* /opt/cola/permits/1628852058_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-
jar/io/grpc/netty/ProtocolNegotiator.java
```

# 1.1131 uuid-creator 5.2.0

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```
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-jar/META-
INF/maven/com.github.f4b6a3/uuid-creator/pom.xml
```

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\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/rfc4122/NameBasedSha1Factory.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/util/UuidComparator.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/Base62Codec.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/function/ClockSeqFunction.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/util/internal/RandomUtil.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/Base64Codec.java

\*

/opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/other/NcnameCodec.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/enums/UuidVersion.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultTimeFunction.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/Base32Codec.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/util/UuidTime.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultClockSeqFunction.java

\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeOrderedFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/exception/InvalidUuidException.java  
 \*  
 /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/enums/UuidLocalDomain.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/AbstRandomBasedFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/NoArgsFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/rfc4122/DceSecurityFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeOrderedEpochFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/base/BaseNCodec.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/nonstandard/PrefixCombFactory.java  
 \*  
 /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/util/MachineId.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/base/function/Base32Encoder.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/UuidFactory.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/function/RandomFunction.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/util/UuidValidator.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/base/BaseN.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/factory/function/impl/HashNodeIdFunction.java  
 \*  
 /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/other/DotNetGuid4Codec.java  
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 jar/com/github/f4b6a3/uuid/codec/other/TimeOrderedCodec.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/base/Base64UrlCodec.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
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 jar/com/github/f4b6a3/uuid/util/immutable/CharArray.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
 jar/com/github/f4b6a3/uuid/codec/base/function/BaseNRemainderDecoder.java  
 \* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-

jar/com/github/f4b6a3/uuid/codec/base/function/Base16Encoder.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/nonstandard/ShortSuffixCombFactory.java  
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jar/com/github/f4b6a3/uuid/codec/base/function/Base16Decoder.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/BinaryCodec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/Base16Codec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/AbstTimeBasedFactory.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
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jar/com/github/f4b6a3/uuid/factory/nonstandard/ShortPrefixCombFactory.java  
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jar/com/github/f4b6a3/uuid/util/internal/SettingsUtil.java  
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/opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultNodeIdFunction.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/rfc4122/NameBasedMd5Factory.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/enums/UuidVariant.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/StringCodec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/util/immutable/LongArray.java  
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jar/com/github/f4b6a3/uuid/codec/UrnCodec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/other/DotNetGuid1Codec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/function/impl/MacNodeIdFunction.java  
\*  
/opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/Base58BtcCodec.java  
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jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultRandomFunction.java  
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jar/com/github/f4b6a3/uuid/util/CombUtil.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/UriCodec.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/codec/base/function/BaseNEncoder.java  
\* /opt/cola/permits/1635667665\_1681295317.355/0/uuid-creator-5-2-0-sources-  
jar/com/github/f4b6a3/uuid/factory/rfc4122/RandomBasedFactory.java

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* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/util/internal/NetworkUtil.java
*
/opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/enums/UuidNamespace.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/function/impl/RandomNodeIdFunction.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/util/UuidUtil.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/base/function/Base64Decoder.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/util/internal/ByteUtil.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/other/SlugCodec.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/function/impl/WindowsTimeFunction.java
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jar/com/github/f4b6a3/uuid/codec/UuidCodec.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/base/function/Base64Encoder.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/function/TimeFunction.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/nonstandard/SuffixCombFactory.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/AbstCombFactory.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/base/function/Base32Decoder.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeBasedFactory.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/factory/AbstNameBasedFactory.java
*
/opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/base/function/BaseNRemainderEncoder.java
* /opt/cola/permits/1635667665_1681295317.355/0/uuid-creator-5-2-0-sources-
jar/com/github/f4b6a3/uuid/codec/base/function/BaseNDecoder.java

```

# 1.1132 update-browserslist-db 1.0.11

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## 1.1133 immutability-helper 3.1.1

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# 1.1134 date-fns 2.30.0

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## 1.1137 resilience4j-ratelimiter 1.7.1

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\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/internal/InMemoryRateLimiterRegistry.java  
\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/event/AbstractRateLimiterEvent.java  
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\*

/opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RateLimiterConfig.java  
\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RequestNotPermitted.java  
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\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/internal/RateLimiterEventProcessor.java  
\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RateLimiterRegistry.java

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\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/utils/package-info.java  
\*  
/opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/internal/package-info.java  
\* /opt/cola/permits/1722502997\_1686909457.5096498/0/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/package-info.java

# 1.1138 babel-plugin-syntax-flow 7.22.5

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# 1.1143 babel-plugin-transform-flow-strip-types 7.22.5

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## 1.1144 html-entities 2.4.0

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## 1.1145 semver 5.7.2

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## 1.1146 typed-array-byte-offset 1.0.0

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## 1.1147 babel-plugin-styled-components 2.1.4

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## 1.1148 styled-components 5.3.11

### 1.1148.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
{"version":3,"file":"styled-components.js","sources":["../src/utis/isStyledComponent.js","../src/utis/interleave.js","../src/utis/isPlainObject.js","../src/utis/empties.js","../src/utis/isFunction.js","../src/utis/getComponentName.js","../src/constants.js","../src/utis/error.js","../src/utis/errors.js","../src/sheet/GroupedTag.js","../src/sheet/GroupIDAllocator.js","../src/sheet/Rehydration.js","../src/utis/nonce.js","../src/sheet/dom.js","../src/sheet/Tag.js","../src/sheet/Sheet.js","../src/utis/generateAlphabetName.js","../src/utis/hash.js","../src/models/ComponentStyle.js","../node_modules/@emotion/stylis/dist/stylis.esm.js","../src/utis/stylis.js","../src/utis/stylisPluginInsertRule.js","../src/models/StyleSheetManager.js","../node_modules/shallowequal/index.js","../src/models/Keyframes.js","../src/utis/hyphenateStyleName.js","../node_modules/@emotion/unitless/dist/unitless.esm.js","../src/utis/flatten.js","../src/utis/isStatelessFunction.js","../src/utis/addUnitIfNeeded.js","../src/constructors/css.js","../src/models/GlobalStyle.js","../src/utis/isStaticRules.js","../src/models/ThemeProvider.js","../src/utis/checkDynamicCreation.js","../src/utis/determineTheme.js","../src/utis/generateComponentId.js","../src/models/ServerStyleSheet.js","../node_modules/hoist-non-react-statics/dist/hoist-non-react-statics.cjs.js","../src/secretInternals.js","../src/base.js","../src/constructors/createGlobalStyle.js","../src/constructors/keyframes.js","../src/hooks/useTheme.js","../src/hoc/withTheme.js","../node_modules/@emotion/memoize/dist/emotion-memoize.esm.js","../node_modules/@emotion/is-prop-valid/dist/emotion-is-prop-valid.esm.js","../src/utis/escape.js","../src/utis/isTag.js","../src/utis/mixinDeep.js","../src/models/StyledComponent.js","../src/utis/generateDisplayName.js","../src/utis/joinStrings.js","../src/utis/createWarnTooManyClasses.js","../src/constructors/styled.js","../src/constructors/constructWithOptions.js","../src/index-standalone.js","../src/utis/domElements.js"],"sourcesContent":["// @flow\nexport default function isStyledComponent(target: any): boolean %checks {\n  return target && typeof target.styledComponentId === 'string';\n}\n\n// @flow\nimport type { Interpolation } from './types';\nexport default (\n  strings: Array<string>,\n  interpolations: Array<Interpolation>\n): Array<Interpolation> => {\n  const result = [strings[0]];\n  for (let i = 0, len = interpolations.length; i < len; i += 1) {\n    result.push(interpolations[i], strings[i + 1]);\n  }\n  return result;\n}\n\n// @flow\nimport { typeOf } from 'react-is';\nexport default (x: any): boolean => {\n  x !== null && typeof x === 'object' && (x.toString ? x.toString())
```

```

Object.prototype.toString.call(x) === '[object Object]' &&\n !typeof(x);\n", "// @flow\nexport const
EMPTY_ARRAY = Object.freeze([]);\nexport const EMPTY_OBJECT = Object.freeze({});\n", "//
@flow\nexport default function isFunction(test: any): boolean %checks {\n return typeof test ===
'function';\n}\n", "// @flow\nimport type { IStyledComponent } from './types';\n\nexport default function
getComponentName(\n target: $PropertyType<IStyledComponent, 'target'>\n): string {\n return (\n
(process.env.NODE_ENV !== 'production' ? typeof target === 'string' && target : false) ||\n // $FlowFixMe\n
target.displayName ||\n // $FlowFixMe\n target.name ||\n 'Component'\n );\n}\n", "// @flow\n\nexport declare var
SC_DISABLE_SPEEDY: ?boolean;\n\nexport declare var __VERSION__: string;\n\nexport const SC_ATTR: string =\n
(typeof process !== 'undefined' &&\n typeof process.env !== 'undefined' &&\n
(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const
SC_VERSION = __VERSION__;\n\nexport const SPLITTER = '!sc*^\\n';\n\nexport
const IS_BROWSER = typeof window !== 'undefined' && 'HTMLElement' in window;\n\nexport const
DISABLE_SPEEDY = Boolean(\n typeof SC_DISABLE_SPEEDY === 'boolean'\n ? SC_DISABLE_SPEEDY\n
: typeof process !== 'undefined' && typeof process.env !== 'undefined'\n ? typeof
process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined' &&\n
process.env.REACT_APP_SC_DISABLE_SPEEDY !== "\n ?
process.env.REACT_APP_SC_DISABLE_SPEEDY === 'false'\n ? false\n
: process.env.REACT_APP_SC_DISABLE_SPEEDY\n : typeof process.env.SC_DISABLE_SPEEDY !==
'undefined' && process.env.SC_DISABLE_SPEEDY !== "\n ? process.env.SC_DISABLE_SPEEDY ===
'false'\n ? false\n : process.env.SC_DISABLE_SPEEDY\n : process.env.NODE_ENV !== 'production'\n
: false);\n)\n\n// Shared empty execution context when generating static styles\nexport const
STATIC_EXECUTION_CONTEXT = {};\n", "// @flow\nimport errorMap from './errors';\n\nconst ERRORS =
process.env.NODE_ENV !== 'production'
? errorMap : {};\n\n/**\n * super basic version of sprintf\n */\nfunction format(...args) {\n let a = args[0];\n const
b = [];\n for (let c = 1, len = args.length; c < len; c += 1) {\n b.push(args[c]);\n }\n\n b.forEach(d => {\n a =
a.replace(/%[a-z]/, d);\n });\n\n return a;\n}\n\n/**\n * Create an error file out of errors.md for development and a
simple web link to the full errors\n * in production mode.\n */\nexport default function
throwStyledComponentsError(\n code: string | number,\n ...interpolations: Array<any>\n) {\n if
(process.env.NODE_ENV === 'production') {\n throw new Error(\n `An error occurred. See
https://git.io/JUIaE#${code} for more information.${\n interpolations.length > 0 ? ` Args:
${interpolations.join(', ')} : "\n } \n );\n } else {\n throw new Error(format(ERRORS[code],
...interpolations).trim());\n }\n}\n", "export default {"1": "Cannot create styled-component for component:
%s.\n\n", "2": "Can't collect
styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-
side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you accidentally calling collectStyles
twice?\n\n", "3": "Streaming SSR is only supported in a Node.js environment; Please do not try to call this
method in the browser.\n\n", "4": "The `StyleSheetManager` expects a valid target or sheet prop!\n\n- Does this
error occur on the client and is your target falsy?\n- Does this error occur on the server and is the sheet
falsy?\n\n", "5": "The clone method cannot be used on the client!\n\n- Are you running in a client-like
environment on the server?\n- Are you trying to run SSR on the client?\n\n", "6": "Trying to insert a new style
tag, but the given Node is unmounted!\n\n- Are you using a custom target that isn't mounted?\n- Does your
document not have a valid head element?\n- Have you accidentally removed a style tag
manually?\n\n", "7": "ThemeProvider:
Please return an object from your `theme` prop function, e.g.\n\n`js\ntheme={() =>
({})}`\n\n", "8": "ThemeProvider: Please make your `theme` prop an object.\n\n", "9": "Missing
document `<head>`\n\n", "10": "Cannot find a StyleSheet instance. Usually this happens if there are multiple
copies of styled-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases

```

where this situation can happen: <https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021>

11: This error was replaced with a dev-time warning, it will be deleted for v4 final. [createGlobalStyle] received children which will not be rendered. Please use the component without passing children elements.

12: It seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the `css`` helper which ensures the styles are injected correctly. See <https://www.styled-components.com/docs/api#css>

13: %s is not a styled component and cannot be referred to via component selector. See <https://www.styled-components.com/docs/advanced#referring-to-other-components> for more details.

14: ThemeProvider: "theme" prop is required.

15: A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g. `jsObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });`

16: Reached the limit of how many styled components may be created at group %s. You may only create up to 1,073,741,824 components. If you're creating components dynamically, as for instance in your render method then you may be running into this limitation.

17: CSSStyleSheet could not be found on HTMLStyleElement.

Has styled-components' style tag been unmounted or altered by another script?

```

@flow\n/* eslint-disable no-use-before-define *\n\nimport type { GroupedTag, Tag } from './types';\nimport { SPLITTER } from './constants';\nimport throwError from './utils/error';\n\n/** Create a GroupedTag with an underlying Tag implementation */\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n  return new DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements GroupedTag {\n  groupSizes: Uint32Array;\n\n  length: number;\n\n  tag: Tag;\n\n  constructor(tag: Tag) {\n    this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n  }\n\n  indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n      index += this.groupSizes[i];\n    }\n\n    return index;\n  }\n\n  insertRules(group: number, rules: string[]): void {\n    if (group >= this.groupSizes.length) {\n      const oldBuffer = this.groupSizes;\n      const oldSize = oldBuffer.length;\n      let newSize = oldSize;\n      while (group >= newSize) {\n        newSize <<= 1;\n        if (newSize < 0) {\n          throwError(16, `${group}`);\n        }\n      }\n      this.groupSizes = new Uint32Array(newSize);\n      this.groupSizes.set(oldBuffer);\n      this.length = newSize;\n      for (let i = oldSize; i < newSize; i++) {\n        this.groupSizes[i] = 0;\n      }\n    }\n\n    let ruleIndex = this.indexOfGroup(group + 1);\n    for (let i = 0, l = rules.length; i < l; i++) {\n      if (this.tag.insertRule(ruleIndex, rules[i])) {\n        this.groupSizes[group]++;\n        ruleIndex++;\n      }\n    }\n\n    clearGroup(group: number): void {\n      if (group < this.length) {\n        const length = this.groupSizes[group];\n        const startIndex = this.indexOfGroup(group);\n        const endIndex = startIndex + length;\n        this.groupSizes[group] = 0;\n\n        for (let i = startIndex; i < endIndex; i++) {\n          this.tag.deleteRule(startIndex);\n        }\n      }\n\n      getGroup(group: number): string {\n        let css = '';\n        if (group >= this.length || this.groupSizes[group] === 0) {\n          return css;\n        }\n\n        const length = this.groupSizes[group];\n        const startIndex = this.indexOfGroup(group);\n        const endIndex = startIndex + length;\n        for (let i = startIndex; i < endIndex; i++) {\n          css += `${this.tag.getRule(i)}${SPLITTER}`;\n        }\n\n        return css;\n      }\n    }\n\n    @flow\n\nimport throwError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister: Map<string, number> = new Map();\nlet reverseRegister: Map<number, string> = new Map();\nlet nextFreeGroup = 1;\n\nexport const\n  resetGroupIds = () => {\n    groupIDRegister = new Map();\n    reverseRegister = new Map();\n    nextFreeGroup = 1;\n  }; \n\nexport const\n  getGroupForId = (id: string): number => {\n    if (groupIDRegister.has(id)) {\n      return groupIDRegister.get(id);\n    }\n\n    while (reverseRegister.has(nextFreeGroup)) {\n      nextFreeGroup++;\n    }\n\n    const group = nextFreeGroup++;\n\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      ((group | 0) < 0 || group > MAX_SMI)\n    ) {\n      throwError(16, `${group}`);\n    }\n\n    groupIDRegister.set(id, group);\n  }

```

```

reverseRegister.set(group, id);\n return group;\n};\n\nexport const getIdForGroup = (group: number): void | string
=> {\n return reverseRegister.get(group);\n};\n\nexport const setGroupForId = (id: string, group: number) => {\n if
(group >= nextFreeGroup) {\n nextFreeGroup = group + 1;\n }\n\n groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n};\n\n", "// @flow\n\nimport { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE,
SC_ATTR_VERSION,
SC_VERSION } from './constants';\nimport { getIdForGroup, setGroupForId } from './GroupIDAllocator';\nimport
type { Sheet } from './types';\n\nconst SELECTOR =
`style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`; \nconst MARKER_RE = new
RegExp(`^${SC_ATTR}\\\\\\\\.g(\\\\\\\\d+)(\\\\\\\\[id=](\\\\\\\\w\\\\\\\\d-)+)\\\\\\\\\\\\.?!"([^\"]*)`);\n\nexport const outputSheet =
(sheet: Sheet) => {\n const tag = sheet.getTag();\n const { length } = tag;\n\n let css = "";\n for (let group = 0;
group < length; group++) {\n const id = getIdForGroup(group);\n if (id === undefined) continue;\n\n const
names = sheet.names.get(id);\n const rules = tag.getGroup(group);\n if (!names || !rules || !names.size)
continue;\n\n const selector = `${SC_ATTR}.g${group}[id=${id}]`; \n\n let content = "";\n if (names !==
undefined) {\n names.forEach(name => {\n if (name.length > 0) {\n content += `${name},`; \n
}); \n } \n\n // NOTE: It's easier to collect
rules and have the marker\n // after the actual rules to simplify the rehydration\n css +=
`${rules}${selector}{content:"${content}"}` + SPLITTER`;\n } \n\n return css;\n};\n\nconst
rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n const names = content.split(',');\n
let name;\n for (let i = 0, l = names.length; i < l; i++) {\n // eslint-disable-next-line\n if ((name = names[i]))
{\n sheet.registerName(id, name);\n } \n } \n};\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:
HTMLStyleElement) => {\n const parts = (style.textContent || "").split(SPLITTER);\n const rules: string[] = [];\n
for (let i = 0, l = parts.length; i < l; i++) {\n const part = parts[i].trim();\n if (!part) continue;\n\n const marker =
part.match(MARKER_RE);\n\n if (marker) {\n const group = parseInt(marker[1], 10) | 0;\n const id =
marker[2];\n\n if (group !== 0) {\n // Rehydrate componentId to group index mapping\n
setGroupForId(id, group);\n // Rehydrate names and rules\n // looks like: data-
styled.g11[id="idA"]{content:"nameA,"} \n rehydrateNamesFromContent(sheet, id, marker[3]);\n
sheet.getTag().insertRules(group, rules);\n } \n\n rules.length = 0;\n } else {\n rules.push(part);\n } \n
} \n};\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n const nodes =
document.querySelectorAll(SELECTOR);\n\n for (let i = 0, l = nodes.length; i < l; i++) {\n const node =
((nodes[i]: any): HTMLStyleElement);\n if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)
{\n rehydrateSheetFromTag(sheet, node);\n\n if (node.parentNode) {\n
node.parentNode.removeChild(node);\n } \n } \n } \n};\n\n", "// @flow\n\n/* eslint-disable camelcase, no-undef
*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n return typeof __webpack_nonce__
!== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default
getNonce;\n\n", "// @flow\n\nimport { SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION }
from './constants';\nimport getNonce from './utils/nonce';\nimport throwError from './utils/error';\n\nconst
ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE *\n\n/** Find last style element if any inside target *\n\nconst
findLastStyleTag = (target: HTMLElement): void | HTMLStyleElement => {\n const { childNodes } = target;\n
for (let i = childNodes.length; i >= 0; i--) {\n const child = ((childNodes[i]: any): ?HTMLElement);\n if (child
&& child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n return ((child: any):
HTMLStyleElement);\n } \n } \n\n return undefined;\n};\n\n/** Create a style element inside `target` or <head>
after the last *\n\nexport const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {\n const head =
((document.head: any): HTMLElement);\n const parent = target || head;\n const style =
document.createElement('style');\n const prevStyle
= findLastStyleTag(parent);\n const nextSibling = prevStyle !== undefined ? prevStyle.nextSibling : null;\n\n
style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n style.setAttribute(SC_ATTR_VERSION,
SC_VERSION);\n\n const nonce = getNonce();\n\n if (nonce) style.setAttribute('nonce', nonce);\n\n
parent.insertBefore(style, nextSibling);\n\n return style;\n};\n\n/** Get the CSSStyleSheet instance for a given style

```

```

element */\nexport const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return
((tag.sheet: any): CSSStyleSheet);\n  }\n  // Avoid Firefox quirk where the style element might not have a sheet
property\n  const { styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n    const sheet =
styleSheets[i];\n    if (sheet.ownerNode === tag) {\n      return ((sheet: any): CSSStyleSheet);\n    }\n  }\n  \n  throwStyledError(17);\n  return (undefined: any);\n};\n"}\n"/ @flow\n/* eslint-disable no-use-before-define
*/\n\nimport
{ makeStyleTag, getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/** Create a
CSSStyleSheet-like tag depending on the environment */\n\nexport const makeTag = ({ isServer,
useCSSOMInjection, target }: SheetOptions): Tag => {\n  if (isServer) {\n    return new VirtualTag(target);\n  } else
if (useCSSOMInjection) {\n    return new CSSOMTag(target);\n  } else {\n    return new TextTag(target);\n  }\n}\n\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n  \n  sheet:
CSSStyleSheet;\n  \n  length: number;\n  \n  constructor(target?: HTMLStyleElement) {\n    const element = (this.element =
makeStyleTag(target));\n    // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode("")); \n    this.sheet = getSheet(element);\n    this.length = 0;\n  }\n  \n  insertRule(index: number, rule: string): boolean {\n    try {\n      this.sheet.insertRule(rule, index);\n
      this.length++;\n      return true;\n    }\n    catch (_error) {\n      return false;\n    }\n  }\n  \n  deleteRule(index: number): void {\n
this.sheet.deleteRule(index);\n    this.length--;\n  }\n  \n  getRule(index: number): string {\n    const rule =
this.sheet.cssRules[index];\n    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n    if (rule
!== undefined && typeof rule.cssText === 'string') {\n      return rule.cssText;\n    } else {\n      return ";\n    }\n  }\n}\n\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes */\n\nexport class TextTag implements
Tag {\n  element: HTMLStyleElement;\n  \n  nodes: NodeList<Node>;\n  \n  length: number;\n  \n  constructor(target?:
HTMLStyleElement) {\n    const element = (this.element = makeStyleTag(target));\n    this.nodes =
element.childNodes;\n    this.length = 0;\n  }\n  \n  insertRule(index: number, rule: string): boolean {\n    if (index <=
this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode =
this.nodes[index];\n      this.element.insertBefore(node, refNode || null);\n      this.length++;\n      return true;\n    } else {\n      return
false;\n    }\n  }\n  \n  deleteRule(index: number): void {\n    this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n  \n  getRule(index: number): string {\n    if (index < this.length) {\n      return
this.nodes[index].textContent;\n    } else {\n      return ";\n    }\n  }\n}\n\n\n/** A completely virtual (server-side) Tag
that doesn't manipulate the DOM */\n\nexport class VirtualTag implements Tag {\n  rules: string[];\n  \n  length:
number;\n  \n  constructor(_target?: HTMLStyleElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n  \n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length) {\n      this.rules.splice(index, 0,
rule);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n  \n  deleteRule(index: number):
void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n  \n  getRule(index: number): string {\n    if (index < this.length) {\n      return this.rules[index];\n    } else {\n      return ";\n    }\n  }\n}\n\n\n"/ @flow\n\nimport { DISABLE_SPEEDY, IS_BROWSER } from '../constants';\nimport {
EMPTY_OBJECT } from '../utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport {
getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet } from './Rehydration';\nimport {
makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from './types';\n\nlet
SHOULD_REHYDRATE = IS_BROWSER;\n\ntype SheetConstructorArgs = {\n  isServer?: boolean,\n  useCSSOMInjection?: boolean,\n  target?: HTMLStyleElement,\n};\n\ntype GlobalStylesAllocationMap = { [key:
string]: number };\n\ntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions: SheetOptions
= {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains the main
stylesheet logic for stringification and caching */\n\nexport
default class StyleSheet implements Sheet {\n  gs: GlobalStylesAllocationMap;\n  \n  names:
NamesAllocationMap;\n  \n  options: SheetOptions;\n  \n  server: boolean;\n  \n  tag: void | GroupedTag;\n  \n  /**
Register a group ID to give it an index */\n  \n  static registerId(id: string): number {\n    return getGroupForId(id);\n  }\n}

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}\n\n constructor(\n  options: SheetConstructorArgs = EMPTY_OBJECT,\n  globalStyles?:\n  GlobalStylesAllocationMap = {},\n  names?: NamesAllocationMap\n ) {\n  this.options = {\n  ...defaultOptions,\n  ...options,\n  };\n\n  this.gs = globalStyles;\n  this.names = new Map(names);\n  this.server = !options.isServer;\n\n  // We rehydrate only once and use the sheet that is created first\n  if\n  (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n    SHOULD_REHYDRATE = false;\n    rehydrateSheet(this);\n  }\n\n  reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =\n  true) {\n    return new StyleSheet(\n      { ...this.options,\n      ...options },\n      this.gs,\n      (withNames && this.names) || undefined\n    );\n  }\n\n  allocateGSInstance(id:\n  string) {\n    return (this.gs[id] = (this.gs[id] || 0) + 1);\n  }\n\n  /** Lazily initialises a GroupedTag for when it's\n  actually needed */\n  getTag(): GroupedTag {\n    return this.tag || (this.tag =\n    makeGroupedTag(makeTag(this.options)));\n  }\n\n  /** Check whether a name is known for caching */\n  hasNameForId(id: string, name: string): boolean {\n    return this.names.has(id) && (this.names.get(id):\n    any).has(name);\n  }\n\n  /** Mark a group's name as known for caching */\n  registerName(id: string, name: string)\n  {\n    getGroupForId(id);\n\n    if (!this.names.has(id)) {\n      const groupNames = new Set();\n      groupNames.add(name);\n      this.names.set(id, groupNames);\n    } else {\n      (this.names.get(id):\n      any).add(name);\n    }\n  }\n\n  /** Insert new rules which also marks the name as known */\n  insertRules(id: string,\n  name: string, rules:\n  string[]) {\n    this.registerName(id, name);\n    this.getTag().insertRules(getGroupForId(id), rules);\n  }\n\n  /**\n  Clears all cached names for a given group ID */\n  clearNames(id: string) {\n    if (this.names.has(id)) {\n      (this.names.get(id): any).clear();\n    }\n  }\n\n  /** Clears all rules for a given group ID */\n  clearRules(id: string)\n  {\n    this.getTag().clearGroup(getGroupForId(id));\n    this.clearNames(id);\n  }\n\n  /** Clears the entire tag which\n  deletes all rules but not its names */\n  clearTag() {\n    // NOTE: This does not clear the names, since it's only used\n    during SSR\n    // so that we can continuously output only new rules\n    this.tag = undefined;\n  }\n\n  /** Outputs\n  the current sheet as a CSS string with markers for SSR */\n  toString(): string {\n    return outputSheet(this);\n  }\n\n  };\n\n  // @flow\n  /* eslint-disable no-bitwise */\n  const AD_REPLACER_R = /(a)(d)/gi;\n\n  /* This is the\n  "capacity" of our alphabet i.e. 2x26 for all letters plus\n  their capitalised\n  * counterparts */\n  const charsLength = 52;\n\n  /* start at 75 for 'a' until 'z' (25) and then start at 65\n  for capitalised letters */\n  const getAlphabeticChar = (code: number): string =>\n  String.fromCharCode(code +\n  (code > 25 ? 39 : 97));\n\n  /* input a number, usually a hash and convert it to base-52 */\n  export default function\n  generateAlphabeticName(code: number): string {\n    let name = "";\n    let x;\n\n    /* get a char and divide by alphabet-\n    length */\n    for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n      name = getAlphabeticChar(x\n      % charsLength) + name;\n    }\n\n    return (getAlphabeticChar(x % charsLength) +\n    name).replace(AD_REPLACER_R, '$1-$2');\n  }\n\n  // @flow\n  /* eslint-disable */\n  export const SEED =\n  5381;\n\n  // When we have separate strings it's useful to run a progressive\n  // version of djb2 where we pretend that\n  we're still looping over\n  // the same string\n  export const phash = (h: number, x: string): number => {\n    let i =\n    x.length;\n\n    while (i) {\n      h = (h * 33) ^ x.charCodeAt(--i);\n    }\n\n    return h;\n  }\n\n  // This is a djb2 hashing function\n  export\n  const hash = (x: string): number => {\n    return phash(SEED, x);\n  }\n\n  // @flow\n  import { SC_VERSION } from\n  './constants';\n  import StyleSheet from './sheet';\n  import type { RuleSet, Stringifier } from './types';\n  import flatten\n  from './utils/flatten';\n  import generateName from './utils/generateAlphabeticName';\n  import { hash, phash } from\n  './utils/hash';\n  import isStaticRules from './utils/isStaticRules';\n\n  const SEED = hash(SC_VERSION);\n\n  /**\n  * ComponentStyle is all the CSS-specific stuff, not the React-specific stuff.\n  */\n  export default class\n  ComponentStyle {\n    baseHash: number;\n\n    baseStyle: ?ComponentStyle;\n\n    componentId: string;\n\n    isStatic:\n    boolean;\n\n    rules: RuleSet;\n\n    staticRulesId: string;\n\n    constructor(rules: RuleSet, componentId: string,\n    baseStyle?: ComponentStyle) {\n      this.rules = rules;\n      this.staticRulesId = "";\n\n      this.isStatic = process.env.NODE_ENV === 'production' &&\n      (baseStyle === undefined || baseStyle.isStatic)\n      &&\n      isStaticRules(rules);\n      this.componentId = componentId;\n\n      // SC_VERSION gives us isolation\n      between multiple runtimes on the page at once\n      // this is improved further with use of the babel plugin

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"namespace" feature\n  this.baseHash = phash(SEED, componentId);\n  this.baseStyle = baseStyle;\n  //
NOTE: This registers the componentId, which ensures a consistent order\n  // for this component's styles compared
to others\n  StyleSheet.registerId(componentId);\n  }\n  /*\n  * Flattens a rule set into valid CSS\n  * Hashes it,
wraps the whole chunk in a .hash1234 { }\n  * Returns the hash to be injected on render()\n  */\n
generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier) {\n  const {
componentId } = this;\n  const names = [];\n  if (this.baseStyle) {\n
names.push(this.baseStyle.generateAndInjectStyles(executionContext,
styleSheet, stylis));\n  }\n  // force dynamic classnames if user-supplied stylis plugins are in use\n  if
(this.isStatic && !stylis.hash) {\n  if (this.staticRulesId && styleSheet.hasNameForId(componentId,
this.staticRulesId)) {\n  names.push(this.staticRulesId);\n  } else {\n  const cssStatic = flatten(this.rules,
executionContext, styleSheet, stylis).join(");\n  const name = generateName(phaash(this.baseHash, cssStatic) >>>
0);\n  if (!styleSheet.hasNameForId(componentId, name)) {\n  const cssStaticFormatted = stylis(cssStatic,
`.${name}`, undefined, componentId);\n  styleSheet.insertRules(componentId, name, cssStaticFormatted);\n
}\n  names.push(name);\n  this.staticRulesId = name;\n  } else {\n  const { length } =
this.rules;\n  let dynamicHash = phash(this.baseHash, stylis.hash);\n  let css = ";\n  for (let i = 0; i < length;
i++) {\n  const partRule = this.rules[i];\n  if (typeof partRule === 'string') {\n  css += partRule;\n  if (process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule + i);\n  } else if
(partRule) {\n  const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n  const
partString = Array.isArray(partChunk) ? partChunk.join(") : partChunk;\n  dynamicHash =
phaash(dynamicHash, partString + i);\n  css += partString;\n  }\n  }\n  if (css) {\n  const name =
generateName(dynamicHash >>> 0);\n  if (!styleSheet.hasNameForId(componentId, name)) {\n  const
cssFormatted = stylis(css, `.${name}`, undefined, componentId);\n  styleSheet.insertRules(componentId, name,
cssFormatted);\n  }\n  names.push(name);\n  }\n  }\n  return names.join(' '); }\n}\n", "function
stylis_min (W) {\n  function M(d, c, e, h, a) {\n  for
(var m = 0, b = 0, v = 0, n = 0, q, g, x = 0, K = 0, k, u = k = q = 0, l = 0, r = 0, I = 0, t = 0, B = e.length, J = B - 1, y,
f = "", p = "", F = "", G = "", C; l < B;) {\n  g = e.charCodeAt(l);\n  l === J && 0 !== b + n + v + m && (0 !== b
&& (g = 47 === b ? 10 : 47), n = v = m = 0, B++, J++);\n  if (0 === b + n + v + m) {\n  if (l === J && (0 <
r && (f = f.replace(N, "")), 0 < f.trim().length)) {\n  switch (g) {\n  case 32:\n  case 9:\n  case
59:\n  case 13:\n  case 10:\n  break;\n  default:\n  f += e.charAt(l);\n  }\n  g = 59;\n  }\n  switch (g) {\n  case 123:\n  f = f.trim();\n  q = f.charCodeAt(0);\n
k = 1;\n  for (t = ++l; l < B;) {\n  switch (g = e.charCodeAt(l)) {\n  case 123:\n
k++;\n  break;\n  case 125:\n
k--;\n  break;\n  case 47:\n  switch (g = e.charCodeAt(l + 1)) {\n
case 42:\n  case 47:\n  a: {\n  for (u = l + 1; u < J; ++u) {\n
switch (e.charCodeAt(u)) {\n  case 47:\n  if (42 === g && 42 === e.charCodeAt(u
- 1) && l + 2 !== u) {\n  l = u + 1;\n  break a;\n  }\n
break;\n  case 10:\n  if (47 === g) {\n  l = u + 1;\n
break a;\n  }\n  }\n  break;\n  case 91:\n  g++;\n  case 40:\n  g++;\n  case 34:\n  case
39:\n  for (; l++ < J && e.charCodeAt(l) !== g;) {\n  }\n  }\n  if (0 === k)
break;\n  l++; }\n  k = e.substring(t, l);\n  0 === q && (q = (f = f.replace(ca,
").trim().charAt(0));\n  switch (q) {\n  case 64:\n  0 < r && (f = f.replace(N, ""));\n
g = f.charCodeAt(1);\n  switch (g) {\n  case 100:\n  case 109:\n  case
115:\n  case 45:\n  r = c;\n  break;\n  default:\n  r = O;\n
}\n  k = M(c, r, k, g, a + 1);\n  t = k.length;\n  0 < A && (r = X(O, f, I), C = H(3, k, r,
c, D, z,

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t, g, a, h), f = r.join(""), void 0 !== C && 0 === (t = (k = C.trim()).length) && (g = 0, k = "");\n      if (0 < t)
switch (g) {\n      case 115:\n      f = f.replace(da, ea);\n\n      case 100:\n      case
109:\n      case 45:\n      k = f + '{' + k + '};\n\n      break;\n\n      case 107:\n
f = f.replace(fa, '$1 $2');\n      k = f + '{' + k + '};\n      k = 1 === w || 2 === w && L('@' + k, 3) ?
'@-webkit-' + k + '@' + k : '@' + k;\n      break;\n\n      default:\n      k = f + k, 112 === h
&& (k = (p += k, ""));\n      } else k = ";\n      break;\n\n      default:\n      k = M(c, X(c, f, I), k,
h, a + 1);\n      }\n\n      F += k;\n      k = I = r = u = q = 0;\n      f = ";\n      g =
e.charCodeAt(++l);\n
break;\n\n      case 125:\n      case 59:\n      f = (0 < r ? f.replace(N, "") : f).trim();\n      if (1 < (t =
f.length)) switch (0 === u && (q = f.charCodeAt(0), 45 === q || 96 < q && 123 > q) && (t = (f = f.replace(' ',
':')).length), 0 < A && void 0 !== (C = H(1, f, c, d, D, z, p.length, h, a, h)) && 0 === (t = (f = C.trim()).length) &&
(f = "\x00\x00'), q = f.charCodeAt(0), g = f.charCodeAt(1), q) {\n      case 0:\n      break;\n\n
case 64:\n      if (105 === g || 99 === g) {\n      G += f + e.charAt(1);\n      break;\n
}\n\n      default:\n      58 !== f.charCodeAt(t - 1) && (p += P(f, q, g, f.charCodeAt(2)));\n      }\n
I = r = u = q = 0;\n      f = ";\n      g = e.charCodeAt(++l);\n      }\n      }\n\n      switch (g) {\n      case
13:\n      case 10:\n      47 === b ? b = 0 : 0 === 1 + q && 107 !== h && 0 < f.length &&
(r = 1, f += "\x00');\n      0 < A * Y && H(0, f, c, d, D, z, p.length, h, a, h);\n      z = 1;\n      D++;\n
break;\n\n      case 59:\n      case 125:\n      if (0 === b + n + v + m) {\n      z++;\n      break;\n      }\n\n
default:\n      z++;\n      y = e.charAt(l);\n\n      switch (g) {\n      case 9:\n      case 32:\n      if
(0 === n + m + b) switch (x) {\n      case 44:\n      case 58:\n      case 9:\n      case 32:\n
y = ";\n      break;\n\n      default:\n      32 !== g && (y = '');\n      }\n
break;\n\n      case 0:\n      y = "\\\\0';\n      break;\n\n      case 12:\n      y = "\\\\f';\n
break;\n\n      case 11:\n      y = "\\\\v';\n      break;\n\n      case 38:\n      0 === n + b + m && (r
= I
= 1, y = "\\\\f' + y);\n      break;\n\n      case 108:\n      if (0 === n + b + m + E && 0 < u) switch (l - u)
{\n      case 2:\n      112 === x && 58 === e.charCodeAt(l - 3) && (E = x);\n\n      case 8:\n
111 === K && (E = K);\n      }\n      break;\n\n      case 58:\n      0 === n + b + m && (u =
l);\n      break;\n\n      case 44:\n      0 === b + v + n + m && (r = 1, y += "\\\\r');\n      break;\n\n
case 34:\n      case 39:\n      0 === b && (n = n === g ? 0 : 0 === n ? g : n);\n      break;\n\n
case 91:\n      0 === n + b + v && m++;\n      break;\n\n      case 93:\n      0 === n + b + v && m--
;\n      break;\n\n      case 41:\n      0 === n + b + m && v--;\n      break;\n\n      case 40:\n
if (0 === n + b + m) {\n      if
(0 === q) switch (2 * x + 3 * K) {\n      case 533:\n      break;\n\n      default:\n      q
= 1;\n      }\n      v++;\n      }\n\n      break;\n\n      case 64:\n      0 === b + v + n + m
+ u + k && (k = 1);\n      break;\n\n      case 42:\n      case 47:\n      if (!(0 < n + m + v)) switch (b)
{\n      case 0:\n      switch (2 * g + 3 * e.charCodeAt(l + 1)) {\n      case 235:\n      b
= 47;\n      break;\n\n      case 220:\n      t = 1, b = 42;\n      }\n\n
break;\n\n      case 42:\n      47 === g && 42 === x && t + 2 !== 1 && (33 === e.charCodeAt(t + 2)
&& (p += e.substring(t, l + 1)), y = ", b = 0);\n      }\n      }\n\n      0 === b && (f += y);\n      }\n\n      K =
x;\n      x = g;\n
l++;}\n      }\n\n      t = p.length;\n\n      if (0 < t) {\n      r = c;\n      if (0 < A && (C = H(2, p, r, d, D, z, t, h, a, h), void 0
!== C && 0 === (p = C).length)) return G + p + F;\n      p = r.join(',') + '{' + p + '};\n      if (0 !== w * E) {\n
2 !== w || L(p, 2) || (E = 0);\n\n      switch (E) {\n      case 111:\n      p = p.replace(ha, '-moz-$1') + p;\n
break;\n\n      case 112:\n      p = p.replace(Q, ':-webkit-input-$1') + p.replace(Q, ':-moz-$1') + p.replace(Q,
'::-ms-input-$1') + p;\n      }\n\n      E = 0;\n      }\n      }\n\n      return G + p + F;\n      }\n\n      function X(d, c, e) {\n      var
h = c.trim().split(ia);\n      c = h;\n      var a = h.length,\n      m = d.length;\n\n      switch (m) {\n      case 0:\n      case
1:\n      var b = 0;\n      for (d = 0 === m ? " : d[0] + ' '; b < a; ++b) {\n      c[b] = Z(d, c[b], e).trim();\n
}\n\n      break;\n\n      default:\n      var v = b = 0;\n      for (c = [];
```



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b < a; ++b) {\n      for (var n = 0; n < m; ++n) {\n          c[v++] = Z(d[n] + ' ', h[b], e).trim();\n      }\n  }\n  }\n  }\n  return c;\n}\n\nfunction Z(d, c, e) {\n  var h = c.charCodeAt(0);\n  33 > h && (h = (c = c.trim()).charCodeAt(0));\n  switch (h) {\n    case 38:\n      return c.replace(F, '$1' + d.trim());\n    case 58:\n      return d.trim() + c.replace(F, '$1' + d.trim());\n    default:\n      if (0 < 1 * e && 0 < c.indexOf("\\f")) return c.replace(F, (58 === d.charCodeAt(0) ? " : '$1' + d.trim());\n  }\n  }\n  }\n  return d + c;\n}\n\nfunction P(d, c, e, h) {\n  var a = d + ' ';\n  m = 2 * c + 3 * e + 4 * h;\n  if (944 === m) {\n    d = a.indexOf(':', 9) + 1;\n    var b = a.substring(d, a.length - 1).trim();\n    b = a.substring(0, d).trim() + b + ' ';\n    return 1 === w || 2 === w && L(b, 1) ? '-webkit-' + b + b : b;\n  }\n  }\n  }\n  if (0 === w || 2 === w && !L(a, 1)) return a;\n  switch (m) {\n    case 1015:\n      return 97 === a.charCodeAt(10) ? '-webkit-' + a + a : a;\n    case 951:\n      return 116 === a.charCodeAt(3) ? '-webkit-' + a + a : a;\n    case 963:\n      return 110 === a.charCodeAt(5) ? '-webkit-' + a + a : a;\n    case 1009:\n      if (100 !== a.charCodeAt(4)) break;\n    case 969:\n    case 942:\n      return '-webkit-' + a + a;\n    case 978:\n      return '-webkit-' + a + '-moz-' + a + a;\n    case 1019:\n    case 983:\n      return '-webkit-' + a + '-moz-' + a + '-ms-' + a + a;\n    case 883:\n      if (45 === a.charCodeAt(8)) return '-webkit-' + a + a;\n      if (0 < a.indexOf('image-set(', 11)) return a.replace(ja, '$1-webkit-$2') + a;\n      break;\n    case 932:\n      if (45 === a.charCodeAt(4)) switch (a.charCodeAt(5)) {\n        case 103:\n          return '-webkit-box-' + a.replace('-grow', '') + '-webkit-' + a + '-ms-' + a.replace('grow', 'positive') + a;\n        case 115:\n          return '-webkit-' + a + '-ms-' + a.replace('shrink', 'negative') + a;\n        case 98:\n          return '-webkit-' + a + '-ms-' + a.replace('basis', 'preferred-size') + a;\n      }\n      return '-webkit-' + a + '-ms-' + a + a;\n    case 964:\n      return '-webkit-' + a + '-ms-flex-' + a + a;\n    case 1023:\n      if (99 !== a.charCodeAt(8)) break;\n      b = a.substring(a.indexOf(':', 15)).replace('flex-', '').replace('space-between', 'justify');\n      return '-webkit-box-pack' + b + '-webkit-' + a + '-ms-flex-pack' + b + a;\n    case 1005:\n      return ka.test(a) ? a.replace(aa, '-webkit-') + a.replace(aa, '-moz-') + a : a;\n    case 1e3:\n      b = a.substring(13).trim();\n      c = b.indexOf('-') + 1;\n      switch (b.charCodeAt(0) + b.charCodeAt(c)) {\n        case 226:\n          b = a.replace(G, 'tb');\n          break;\n        case 232:\n          b = a.replace(G, 'tb-rl');\n          break;\n        case 220:\n          b = a.replace(G, 'lr');\n          break;\n        default:\n          return a;\n      }\n      return '-webkit-' + a + '-ms-' + b + a;\n    case 1017:\n      if (-1 === a.indexOf('sticky', 9)) break;\n    case 975:\n      c = (a = d).length - 10;\n      b = (33 === a.charCodeAt(c) ? a.substring(0, c) : a).substring(d.indexOf(':', 7) + 1).trim();\n      switch (m = b.charCodeAt(0) + (b.charCodeAt(7) | 0)) {\n        case 203:\n          if (111 > b.charCodeAt(8)) break;\n        case 115:\n          a = a.replace(b, '-webkit-' + b) + ' ' + a;\n          break;\n        case 207:\n        case 102:\n          a = a.replace(b, '-webkit-' + (102 < m ? 'inline-' : '') + 'box') + ' ' + a.replace(b, '-webkit-' + b) + ' ' + a.replace(b, '-ms-' + b + 'box') + ' ' + a;\n      }\n      return a + ' ';\n    case 938:\n      if (45 === a.charCodeAt(5)) switch (a.charCodeAt(6)) {\n        case 105:\n          return b = a.replace('-items', ''), '-webkit-' + a + '-webkit-box-' + b + '-ms-flex-' + b + a;\n        case 115:\n          return '-webkit-' + a + '-ms-flex-item-' + a.replace(ba, '') + a;\n        default:\n          return '-webkit-' + a + '-ms-flex-line-pack' + a.replace('align-content', '').replace(ba, '') + a;\n      }\n      break;\n    case 973:\n    case 989:\n      if (45 !== a.charCodeAt(3) || 122 === a.charCodeAt(4)) break;\n    case 931:\n    case 953:\n      if (!0 === la.test(d)) return 115 === (b = d.substring(d.indexOf(':') + 1)).charCodeAt(0) ? P(d.replace('stretch', 'fill-available'), c, e, h).replace(':fill-available', 'stretch') : a.replace(b, '-webkit-' + b) + a.replace(b, '-moz-' + b).replace('fill-', '') + a;\n      break;\n    case 962:\n      if (a = '-webkit-' + a + (102 === a.charCodeAt(5) ? '-ms-' + a : '') + a, 211 === e + h && 105 === a.charCodeAt(13) && 0 < a.indexOf('transform', 10)) return a.substring(0, a.indexOf(':', 27) + 1).replace(ma, '$1-webkit-$2') + a;\n      }\n      }\n      return a;\n  }\n  }\n  }\n  function L(d, c) {\n    var e = d.indexOf(1 === c ? ' ': '{'),\n        h = d.substring(0, 3 !== c ? e : 10);\n    e = d.substring(e + 1, d.length - 1);\n    return R(2 !== c ? h : h.replace(na, '$1'), e, c);\n  }\n  }\n  }\n  function ea(d, c) {\n    var e = P(c, c.charCodeAt(0), c.charCodeAt(1), c.charCodeAt(2));\n    return e !== c + ' ' ? e.replace(oa, ' or ($1)').substring(4) : '(' + c + ');\n  }\n  }\n  }\n  function H(d, c, e, h, a, m, b, v, n, q) {\n    for (var g = 0, x = c, w; g < A; ++g) {\n      switch (w = S[g].call(B, d, x, e, h, a, m, b, v, n, q)) {\n        case void 0:\n        case !1:\n        case !0:\n        case null:\n          break;\n        default:\n          x = w;\n      }\n    }\n    }\n    }\n    if (x !== c) return x;\n  }\n  }\n  }\n  function T(d) {\n    switch (d) {\n      case void 0:\n      case null:\n

```

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A = S.length = 0;\n    break;\n\n    default:\n        if ('function' === typeof
d) S[A++] = d;else if ('object' === typeof d) for (var c = 0, e = d.length; c < e; ++c) {\n        T(d[c]);\n    } else Y
= !!d | 0;\n    }\n\n    return T;\n    }\n\n    function U(d) {\n        d = d.prefix;\n        void 0 !== d && (R = null, d ? 'function'
!== typeof d ? w = 1 : (w = 2, R = d) : w = 0);\n        return U;\n    }\n\n    function B(d, c) {\n        var e = d;\n        33 >
e.charCodeAt(0) && (e = e.trim());\n        V = e;\n        e = [V];\n\n        if (0 < A) {\n            var h = H(-1, c, e, e, D, z, 0, 0, 0,
0);\n            void 0 !== h && 'string' === typeof h && (c = h);\n        }\n\n        var a = M(O, e, c, 0, 0);\n        0 < A && (h =
H(-2, a, e, e, D, z, a.length, 0, 0, 0), void 0 !== h && (a = h));\n        V = ";\n        E = 0;\n        z = D = 1;\n        return a;\n
}\n\n    var ca = /^\\|0+/g,\n        N = /[\\|0\\|r\\|f]/g,\n        aa = /:/g,\n        ka = /zoo|gra/, \n        ma = /([: ])(transform)/g,\n
        ia = /,\\|r+?/g,\n        F = /([\\|t\\|r\\|n ])*\\|f?&/g,\n        fa = /@(k\\|w+)|s*(\\|S*)\\|s*/g,\n        Q = /::(place)/g,\n
        ha = /:(read-only)/g,\n        G = /[svh]\\|w+-[tblr]{2}/g,\n        da = /\\|\\|s*(.*)\\|s*\\|/g,\n        oa = /([\\|s\\|S]*?)/g,\n
        ba = /-self\\|flex-/g,\n        na = /[^]*?(:[rp][el]a[\\|w-]+)[^]*/, \n        la = /stretch\\|:\\|s*\\|w+\\|-(?:conte|avail)/g,\n        ja = /([^-
])|(image-set\\|()/g,\n        z = 1,\n        D = 1,\n        E = 0,\n        w = 1,\n        O = [],\n        S = [],\n        A = 0,\n        R = null,\n
        Y = 0,\n        V = ";\n        B.use = T;\n        B.set = U;\n        void 0 !== W && U(W);\n        return B;\n    }\n\n    \nexport default
stylis_min;\n", "import Stylis from '@emotion/stylis';\nimport { type Stringifier } from '../types';\nimport {
EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwStyledError from './error';\nimport { phash,
SEED } from './hash';\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst COMMENT_REGEX =
/^\\|s*\\|\\|\\. *$/gm;\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\nntype StylisInstanceConstructorArgs
= {\n    options?: Object,\n    plugins?: Array<Function>,\n};\n\n\nexport
default function createStylisInstance({\n    options = EMPTY_OBJECT,\n    plugins = EMPTY_ARRAY,\n}:
StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n    const stylis = new Stylis(options);\n\n    // Wrap
insertRulePlugin to build a list of rules,\n    // and then make our own plugin to return the rules. This\n    // makes it
easier to hook into the existing SSR architecture\n\n    let parsingRules = [];\n\n    // eslint-disable-next-line consistent-
return\n    const returnRulesPlugin = context => {\n        if (context === -2) {\n            const parsedRules = parsingRules;\n
            parsingRules = [];\n            return parsedRules;\n        }\n    }; \n\n    const parseRulesPlugin = insertRulePlugin(rule => {\n
        parsingRules.push(rule);\n    });\n\n    let _componentId: string;\n    let _selector: string;\n    let _selectorRegexp:
RegExp;\n    let _consecutiveSelfRefRegExp: RegExp;\n\n    const selfReferenceReplacer = (match, offset, string) =>
{\n        if (\n            // do not replace the first occurrence if it is complex
(has a modifier)\n            (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 :
true) &&\n            // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n
!string.match(_consecutiveSelfRefRegExp)\n        ) {\n            return `.${_componentId}`;\n        }\n\n        return match;\n
    }; \n\n    /**\n     * When writing a style like\n     * * & + & {\n     *   color: red;\n     * }\n     * * \n     * The second
ampersand should be a reference to the static component class. stylis\n     * has no knowledge of static class so we
have to intelligently replace the base selector.\n     * * \n     * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <-
more info about the context phase values\n     * \"2\" means this plugin is taking effect at the very end after all other
processing is complete\n     * \n     const selfReferenceReplacementPlugin = (context, _, selectors) => {\n        if (context
=== 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n
            // eslint-disable-next-line no-param-reassign\n            selectors[0] = selectors[0].replace(_selectorRegexp,
selfReferenceReplacer);\n        }\n    }; \n\n    stylis.use(...plugins, selfReferenceReplacementPlugin, parseRulesPlugin,
returnRulesPlugin);\n\n    function stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n        const
flatCSS = css.replace(COMMENT_REGEX, "");\n        const cssStr = selector && prefix ? `${prefix} ${selector} {
${flatCSS} }` : flatCSS;\n\n        // stylis has no concept of state to be passed to plugins\n        // but since JS is single-
threaded, we can rely on that to ensure\n        // these properties stay in sync with the current stylis run\n
_componentId = componentId;\n        _selector = selector;\n        _selectorRegexp = new RegExp(`\\|\\|${_selector}\\|\\|b`,
'g');\n        _consecutiveSelfRefRegExp = new RegExp(`\\|\\|${_selector}\\|\\|b{2,}`);\n\n        return stylis(prefix ||
!selector ? " : selector, cssStr);\n    }\n\n    stringifyRules.hash = plugins.length\n
? plugins\n        .reduce((acc, plugin) => {\n            if (!plugin.name) {\n                throwStyledError(15);\n            }\n
            return phash(acc, plugin.name);\n        }, SEED)\n        .toString()\n        : ";\n\n    return stringifyRules;\n    }\n\n    /**\n     * MIT License\n     * \n     * Copyright (c) 2016 Sultan Tarimo\n     * \n     * Permission is hereby granted, free of charge, to

```

any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

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```
eslint-disable
export default function(insertRule) {
  const delimiter = '*/';
  const needle = `${delimiter}`;
  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}`);
      } catch (e) {}
    }
  }
  return function ruleSheet(context, content, selectors, parents, line, column, length, ns, depth, at) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`);
        break;
      // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
      // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content);
          default:
            return content + (at === 0 ? delimiter : "");
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
  };
}

import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowEqual from 'shallowequal';
import StyleSheet from './sheet';
import type { Stringifier } from './types';
import createStylisInstance from './utils/stylis';
type Props = {
  children?: Node,
  disableCSSOMInjection?: boolean,
  disableVendorPrefixes?: boolean,
  sheet?: StyleSheet,
  stylisPlugins?: Array<Function>,
  target?: HTMLDivElement;
};
export const StyleSheetContext =
  Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer =
  StyleSheetContext.Consumer;
export const StylisContext = Context<Stringifier | void> =
  React.createContext();
export const StylisConsumer = StylisContext.Consumer;
export const masterSheet:
  StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();
export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}
export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}
export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();
  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;
    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({
        target: props.target,
      }, false);
    }
    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    }
    return sheet;
  }, [props.disableCSSOMInjection, props.sheet, props.target]);
  const stylis = useMemo(() => {
    createStylisInstance({
      options: { prefix: !props.disableVendorPrefixes, plugins, },
      [props.disableVendorPrefixes, plugins];
    });
    useEffect(() => {
      if (!shallowEqual(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
    }, [props.stylisPlugins]);
    return (
      <StyleSheetContext.Provider value={styleSheet}>
        <StylisContext.Provider value={stylis}>
          {process.env.NODE_ENV !== 'production' ? React.Children.only(props.children) : props.children}
        </StylisContext.Provider>
      </StyleSheetContext.Provider>
    );
  }, [styleSheet, stylis]);
  module.exports = function shallowEqual(objA, objB, compare, compareContext) {
    var ret = compare ? compare.call(compareContext, objA, objB) : void 0;
    if (ret !== void 0) {
      return !!ret;
    }
    if (objA === objB) {
      return true;
    }
    if (typeof objA !== 'object' || !objA || typeof objB !== 'object' || !objB) {
      return false;
    }
    var keysA = Object.keys(objA);
    var keysB
```

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= Object.keys(objB);\n\n if (keysA.length !== keysB.length) {\n  return false;\n }\n\n var bHasOwnProperty =
Object.prototype.hasOwnProperty.bind(objB);\n\n // Test for A's keys different from B.\n for (var idx = 0; idx <
keysA.length; idx++) {\n  var key = keysA[idx];\n\n  if (!bHasOwnProperty(key)) {\n  return false;\n }\n\n
var valueA = objA[key];\n  var valueB = objB[key];\n\n  ret = compare ? compare.call(compareContext, valueA,
valueB, key) : void 0;\n\n  if (ret === false || (ret === void 0 && valueA !== valueB)) {\n  return false;\n }\n
}\n\n return true;\n};\n", "// @flow\nimport StyleSheet
from './sheet';\nimport { type Stringifier } from './types';\nimport throwError from './utils/error';\nimport {
masterStylis } from './StyleSheetManager';\n\nexport default class Keyframes {\n  id: string;\n\n  name: string;\n\n
rules: string;\n\n  constructor(name: string, rules: string) {\n  this.name = name;\n  this.id = `sc-keyframes-
${name}`;\n  this.rules = rules;\n }\n\n  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis)
=> {\n  const resolvedName = this.name + stylisInstance.hash;\n\n  if (!styleSheet.hasNameForId(this.id,
resolvedName)) {\n  styleSheet.insertRules(\n  this.id,\n  resolvedName,\n  stylisInstance(this.rules,
resolvedName, '@keyframes')\n  );\n }\n\n  toString = () => {\n  return throwError(12,
String(this.name));\n }\n\n  getName(stylisInstance: Stringifier = masterStylis) {\n  return this.name +
stylisInstance.hash;\n }\n}\n", "// @flow\n\n/**\n * inlined version
of\n * https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n */\n\nconst
uppercaseCheck = /^[A-Z]/;\nconst uppercasePattern = /^[A-Z]/g;\nconst msPattern = /^ms-;/\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n/**\n * Hyphenates a camelcased
CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n */\n\n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `-ms-`.\n */\n\n * @param {string} string\n *
@return {string}\n */\n\nexport default function hyphenateStyleName(string: string): string {\n  return
uppercaseCheck.test(string)\n  ? string\n  .replace(uppercasePattern, prefixAndLowerCase)\n  .replace(msPattern,
'-ms-')\n  : string;\n}\n", "var unitlessKeys = {\n  animationIterationCount:
1,\n  borderImageOutset: 1,\n  borderImageSlice: 1,\n  borderImageWidth: 1,\n  boxFlex: 1,\n  boxFlexGroup: 1,\n
boxOrdinalGroup: 1,\n  columnCount: 1,\n  columns: 1,\n  flex: 1,\n  flexGrow: 1,\n  flexPositive: 1,\n  flexShrink:
1,\n  flexNegative: 1,\n  flexOrder: 1,\n  gridRow: 1,\n  gridRowEnd: 1,\n  gridRowSpan: 1,\n  gridRowStart: 1,\n
gridColumn: 1,\n  gridColumnEnd: 1,\n  gridColumnSpan: 1,\n  gridColumnStart: 1,\n  msGridRow: 1,\n  msGridRowSpan:
1,\n  msGridColumn: 1,\n  msGridColumnSpan: 1,\n  fontWeight: 1,\n  lineHeight: 1,\n  opacity:
1,\n  order: 1,\n  orphans: 1,\n  tabSize: 1,\n  widows: 1,\n  zIndex: 1,\n  zoom: 1,\n  WebkitLineClamp: 1,\n // SVG-
related properties\n  fillOpacity: 1,\n  floodOpacity: 1,\n  stopOpacity: 1,\n  strokeDasharray: 1,\n  strokeDashoffset:
1,\n  strokeMiterlimit: 1,\n  strokeOpacity: 1,\n  strokeWidth: 1\n};\n\nexport default unitlessKeys;\n", "//
@flow\nimport { isElement } from 'react-is';\nimport getComponentName from './getComponentName';\nimport
isFunction from './isFunction';\nimport isStatelessFunction from './isStatelessFunction';\nimport isPlainObject from
 './isPlainObject';\nimport isStyledComponent from './isStyledComponent';\nimport Keyframes from
 './models/Keyframes';\nimport hyphenate from './hyphenateStyleName';\nimport addUnitIfNeeded from
 './addUnitIfNeeded';\nimport { type Stringifier } from './types';\n\n/**\n * It's falsish not falsy because 0 is
allowed.\n */\n\nconst isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk ===
"";\n\nexport const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {\n  const rules =
[];\n\n  for (const key in obj) {\n  if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;\n\n  if
((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {\n  rules.push(`${hyphenate(key)}`);
obj[key], ',');\n } else if (isPlainObject(obj[key])) {\n  rules.push(...objToCssArray(obj[key],
key));\n } else {\n  rules.push(`${hyphenate(key)}: ${addUnitIfNeeded(key, obj[key])};`);\n }\n }\n\n return
prevKey ? [`${prevKey} {`, ...rules, '}'] : rules;\n};\n\nexport default function flatten(\n  chunk: any,\n
executionContext: ?Object,\n  styleSheet: ?Object,\n  stylisInstance: ?Stringifier\n): any {\n  if
(Array.isArray(chunk)) {\n  const ruleSet = [];\n\n  for (let i = 0, len = chunk.length, result; i < len; i += 1) {\n
result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);\n\n  if (result === "") continue;\n  else if

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(Array.isArray(result)) ruleSet.push(...result);\n  else ruleSet.push(result);\n } \n\n return ruleSet;\n } \n\n if
(isFalsish(chunk)) {\n  return '';\n } \n\n /* Handle other components */ \n\n if (isStyledComponent(chunk)) {\n
return `.${chunk.styledComponentId}`;\n } \n\n /* Either execute or defer the function */ \n\n if (isFunction(chunk))
{\n  if (isStatelessFunction(chunk) && executionContext)
  {\n    const result = chunk(executionContext);\n    if (process.env.NODE_ENV !== 'production' &&
isElement(result)) {\n      // eslint-disable-next-line no-console\n      console.warn(\n
`${getComponentName(chunk)} is not a styled component and cannot be referred to via
component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for
more details.`\n    );\n  } \n\n  return flatten(result, executionContext, styleSheet, stylisInstance);\n } else
return chunk;\n } \n\n if (chunk instanceof Keyframes) {\n  if (styleSheet) {\n    chunk.inject(styleSheet,
stylisInstance);\n    return chunk.getName(stylisInstance);\n  } else return chunk;\n } \n\n /* Handle objects */ \n\n
return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();\n } \n\n", "// @flow\n\nexport default function
isStatelessFunction(test: any): boolean {\n  return (\n    typeof test === 'function'\n    &&
!(\n      test.prototype\n      && test.prototype.isReactComponent\n    )\n  );\n } \n\n", "// @flow\n\nimport unitless from
'@emotion/unitless';\n\n// Taken from
https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-dom/src/shared/dangerousStyleValue.js\n\nexport default function addUnitIfNeeded(name: string, value: any): any {\n
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n // $FlowFixMe\n if (value === null ||
typeof value === 'boolean' || value === '') {\n  return '';\n } \n\n if (typeof value === 'number' && value !== 0 &&
!(name in unitless) && !name.startsWith('--')) {\n  return `${value}px`; // Presumes implicit 'px' suffix for unitless
numbers except for CSS variables\n } \n\n return String(value).trim();\n } \n\n", "// @flow\n\nimport interleave from
'./utils/interleave';\n\nimport isPlainObject from './utils/isPlainObject';\n\nimport { EMPTY_ARRAY } from
'./utils/empties';\n\nimport isFunction from './utils/isFunction';\n\nimport
flatten from './utils/flatten';\n\nimport type { Interpolation, RuleSet, Styles } from './types';\n\n/**\n * Used when
flattening object styles to determine if we should\n * expand an array of styles.\n */\n\nconst addTag = arg => {\n  if
(Array.isArray(arg)) {\n    // eslint-disable-next-line no-param-reassign\n    arg.isCss = true;\n  } \n\n return
arg;\n };\n\nexport default function css(styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {\n  if
(isFunction(styles) || isPlainObject(styles)) {\n    // $FlowFixMe\n    return
addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n  } \n\n if (interpolations.length === 0
&& styles.length === 1 && typeof styles[0] === 'string') {\n    // $FlowFixMe\n    return styles;\n  } \n\n //
$FlowFixMe\n  return addTag(flatten(interleave(styles, interpolations)));\n } \n\n", "// @flow\n\nimport StyleSheet from
'./sheet';\n\nimport type { RuleSet, Stringifier } from './types';\n\nimport flatten from './utils/flatten';\n\nimport
isStaticRules from './utils/isStaticRules';\n\nexport default class GlobalStyle {\n  componentId: string;\n\n  isStatic:
boolean;\n\n  rules: RuleSet;\n\n  constructor(rules: RuleSet, componentId: string) {\n    this.rules = rules;\n
this.componentId = componentId;\n    this.isStatic = isStaticRules(rules);\n\n    // pre-register the first instance to
ensure global styles\n    // load before component ones\n    StyleSheet.registerId(this.componentId + 1);\n  } \n\n
createStyles(\n  instance: number,\n  executionContext: Object,\n  styleSheet: StyleSheet,\n  stylis: Stringifier\n) {\n  const flatCSS = flatten(this.rules, executionContext, styleSheet, stylis);\n  const css = stylis(flatCSS.join(""),
");\n  const id = this.componentId + instance;\n\n  // NOTE: We use the id as a name as well, since these rules
never change\n  styleSheet.insertRules(id, id, css);\n } \n\n removeStyles(instance: number, styleSheet:
StyleSheet) {\n  styleSheet.clearRules(this.componentId
+ instance);\n } \n\n renderStyles(\n  instance: number,\n  executionContext: Object,\n  styleSheet:
StyleSheet,\n  stylis: Stringifier\n) {\n  if (instance > 2) StyleSheet.registerId(this.componentId + instance);\n
\n  // NOTE: Remove old styles, then inject the new ones\n  this.removeStyles(instance, styleSheet);\n
\n  this.createStyles(instance, executionContext, styleSheet, stylis);\n } \n\n", "// @flow\n\nimport isFunction from
'./isFunction';\n\nimport isStyledComponent from './isStyledComponent';\n\nimport type { RuleSet } from
'./types';\n\nexport default function isStaticRules(rules: RuleSet): boolean {\n  for (let i = 0; i < rules.length; i += 1)
{\n    const rule = rules[i];\n\n    if (isFunction(rule) && !isStyledComponent(rule)) {\n      // functions are allowed

```

```

to be static if they're just being\n    // used to get the classname of a nested styled component\n    return false;\n
}\n }\n\n return true;\n}\n", "// @flow\nimport React, { useContext,\n  useMemo, type Element, type Context } from 'react';\nimport throwError from './utils/error';\nimport\nisFunction from './utils/isFunction';\n\nexport type Theme = { [key: string]: mixed }; \n\n type ThemeArgument =\nTheme | ((outerTheme?: Theme) => Theme);\n\n type Props = {\n  children?: Element<any>,\n  theme:\nThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void> = React.createContext();\n\nexport\nconst ThemeConsumer = ThemeContext.Consumer;\n\nfunction mergeTheme(theme: ThemeArgument,\nouterTheme?: Theme): Theme {\n  if (!theme) {\n    return throwError(14);\n  }\n\n  if (isFunction(theme))\n  {\n    const mergedTheme = theme(outerTheme);\n\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      (mergedTheme === null || Array.isArray(mergedTheme) ||\n        typeof mergedTheme !== 'object')\n    ) {\n      return\n      throwError(7);\n    }\n\n    return mergedTheme;\n  }\n\n  if (Array.isArray(theme) ||\n    typeof theme !==\n    'object') {\n    return throwError(8);\n  }\n\n  return outerTheme ? { ...outerTheme, ...theme } : theme;\n}\n\n/**\n * Provide a theme to an entire react\n component tree via context\n */\n\nexport default function ThemeProvider(props: Props) {\n  const outerTheme =\n  useContext(ThemeContext);\n  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [\n    props.theme,\n    outerTheme,\n  ]);\n\n  if (!props.children) {\n    return null;\n  }\n\n  return\n  <ThemeContext.Provider value={themeContext}>{\n    props.children\n  }</ThemeContext.Provider>;\n}\n", "//\n@flow\n\nimport { useRef } from 'react';\n\nconst invalidHookCallRe = /invalid hook call/i;\nconst seen = new\nSet();\n\nexport const checkDynamicCreation = (displayName: string, componentId?: string) => {\n  if\n  (process.env.NODE_ENV !== 'production') {\n    const parsedIdString = componentId ? `with the id of\n    \"${componentId}\" : \"\";\n    const message =\n    `The component ${displayName}${parsedIdString} has been\n    created dynamically.\\n` +\n    `You\n    may see this warning because you've called styled inside another component.\\n` +\n    `To resolve this only create\n    new StyledComponents outside of any render method and function component.`;\n\n    // If a hook is called outside\n    of a component:\n    // React 17 and earlier throw an error\n    // React 18 and above use console.error\n    const\n    originalConsoleError = console.error // eslint-disable-line no-console\n    try {\n      let didNotCallInvalidHook =\n      true\n      /* $FlowIgnore[cannot-write] */\n      console.error = (consoleErrorMessage, ...consoleErrorArgs) => {\n        //\n        eslint-disable-line no-console\n        // The error here is expected, since we're expecting anything that uses\n        `checkDynamicCreation` to\n        // be called outside of a React component.\n        if\n        (invalidHookCallRe.test(consoleErrorMessage)) {\n          didNotCallInvalidHook = false\n          // This shouldn't\n          happen, but resets `warningSeen` if we had this error happen intermittently\n          seen.delete(message);\n        }\n        else {\n          originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);\n        }\n      }\n      // We\n      purposefully call `useRef` outside of a component and expect it to throw\n      // If it doesn't, then we're inside\n      another component.\n      // eslint-disable-next-line react-hooks/rules-of-hooks\n      useRef();\n\n      if\n      (didNotCallInvalidHook && !seen.has(message)) {\n        // eslint-disable-next-line no-console\n        console.warn(message);\n        seen.add(message);\n      }\n    } catch (error) {\n      // The error here is expected,\n      since we're expecting anything that uses `checkDynamicCreation` to\n      // be called outside of a React\n      component.\n      if (invalidHookCallRe.test(error.message)) {\n        // This shouldn't happen, but resets\n        `warningSeen` if we had this error happen intermittently\n        seen.delete(message);\n      }\n    } finally {\n      /*\n      $FlowIgnore[cannot-write] */\n      console.error = originalConsoleError;\n      // eslint-disable-line no-console\n    }\n  }\n}\n", "// @flow\nimport { EMPTY_OBJECT } from './empties';\n\n type\nProps = {\n  theme?: any,\n};\n\nexport default (props: Props, providedTheme: any, defaultProps: any =\nEMPTY_OBJECT) => {\n  return (props.theme !== defaultProps.theme && props.theme) ||\n  providedTheme ||\n  defaultProps.theme;\n};\n", "// @flow\n\n/* eslint-disable */\nimport generateAlphabeticName from\n'./generateAlphabeticName';\nimport { hash } from './hash';\n\nexport default (str: string): string => {\n  return\n  generateAlphabeticName(hash(str) >>> 0);\n};\n", "// @flow\n\n/* eslint-disable no-underscore-dangle */\nimport\nReact from 'react';\nimport { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from\n'./constants';\nimport throwError from './utils/error';\nimport\ngetNonce from './utils/nonce';\nimport

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sourceComponent, blacklist) {\n if (typeof sourceComponent !== 'string') {\n // don't hoist over string (html)
components\n if (objectPrototype) {\n var inheritedComponent
= getPrototypeOf(sourceComponent);\n\n if (inheritedComponent && inheritedComponent !==
objectPrototype) {\n hoistNonReactStatics(targetComponent, inheritedComponent, blacklist);\n }\n }\n\n
var keys = getOwnPropertyNames(sourceComponent);\n\n if (getOwnPropertySymbols) {\n keys =
keys.concat(getOwnPropertySymbols(sourceComponent));\n }\n\n var targetStatics =
getStatics(targetComponent);\n var sourceStatics = getStatics(sourceComponent);\n\n for (var i = 0; i <
keys.length; ++i) {\n var key = keys[i];\n\n if (!KNOWN_STATICS[key] && !(blacklist && blacklist[key])
&& !(sourceStatics && sourceStatics[key]) && !(targetStatics && targetStatics[key])) {\n var descriptor =
getOwnPropertyDescriptor(sourceComponent, key);\n\n try {\n // Avoid failures from read-only
properties\n defineProperty(targetComponent, key, descriptor);\n } catch (e) {\n }\n }\n }\n\n
return targetComponent;\n}\n\nmodule.exports
= hoistNonReactStatics;\n", "/* @flow\n*/ eslint-disable *\n\nimport StyleSheet from './sheet';\nimport {
masterSheet } from './models/StyleSheetManager';\n\nexport const __PRIVATE__ = {\n StyleSheet,\n
masterSheet,\n};\n", "/* @flow\n*/ Import singletons *\n\nimport isStyledComponent from
'./utils/isStyledComponent';\nimport css from './constructors/css';\nimport createGlobalStyle from
'./constructors/createGlobalStyle';\nimport keyframes from './constructors/keyframes';\nimport ServerStyleSheet
from './models/ServerStyleSheet';\nimport { SC_VERSION } from './constants';\n\nimport StyleSheetManager, {\n
StyleSheetContext,\n StyleSheetConsumer,\n} from './models/StyleSheetManager';\n\n/* Import components
*\n\nimport ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';\n\n/* Import
Higher Order Components *\n\nimport withTheme from './hoc/withTheme';\n\n/* Import hooks *\n\nimport useTheme
from './hooks/useTheme';\n\ndeclare var __SERVER__: boolean;\n\n/*
Warning if you've imported this file on React Native *\n\nif (\n process.env.NODE_ENV !== 'production' &&\n
typeof navigator !== 'undefined' &&\n navigator.product === 'ReactNative'\n) {\n // eslint-disable-next-line no-
console\n console.warn(\n `It looks like you've imported 'styled-components' on React Native.`\n) +\n
`Perhaps you're looking to import 'styled-components/native'?\n` +\n `Read more about this at
https://www.styled-components.com/docs/basics#react-native\n
`);\n\n/* Warning if there are several instances
of styled-components *\n\nif (process.env.NODE_ENV !== 'production' && process.env.NODE_ENV !== 'test' &&
typeof window !== 'undefined') {\n window['__styled-components-init__'] = window['__styled-components-init__']
|| 0;\n\n if (window['__styled-components-init__'] === 1) {\n // eslint-disable-next-line no-console\n
console.warn(\n `It looks like there are several instances of 'styled-components' initialized in this application.
`\n) +\n `This may cause dynamic styles to not render properly, errors during the rehydration process, ' +\n `a
missing theme prop, and makes your application bigger without good reason.`\n\n` +\n `See https://s-c.sh/2BAXzed for more info.`\n );\n }\n\n window['__styled-components-init__'] += 1;\n}\n\n/* Export
everything *\n\nexport * from './secretInternals';\nexport {\n createGlobalStyle,\n css,\n isStyledComponent,\n
keyframes,\n ServerStyleSheet,\n StyleSheetConsumer,\n StyleSheetContext,\n StyleSheetManager,\n
ThemeConsumer,\n ThemeContext,\n ThemeProvider,\n useTheme,\n SC_VERSION as version,\n
withTheme,\n};\n", "/* @flow\nimport React, { useContext, useLayoutEffect, useRef } from 'react';\nimport {
STATIC_EXECUTION_CONTEXT } from './constants';\nimport GlobalStyle from
'./models/GlobalStyle';\nimport { useStyleSheet, useStylis } from './models/StyleSheetManager';\nimport {
ThemeContext } from './models/ThemeProvider';\nimport
type { Interpolation } from './types';\nimport { checkDynamicCreation } from
'./utils/checkDynamicCreation';\nimport determineTheme from './utils/determineTheme';\nimport
generateComponentId from './utils/generateComponentId';\nimport css from './css';\n\ndeclare var __SERVER__:
boolean;\n\ntype GlobalStyleComponentPropsType = Object;\n\nexport default function createGlobalStyle(\n
strings: Array<string>,\n ...interpolations: Array<Interpolation>)\n) {\n const rules = css(strings, ...interpolations);\n
const styledComponentId = `sc-global-${generateComponentId(JSON.stringify(rules))}`;\n const globalStyle =
new GlobalStyle(rules, styledComponentId);\n\n if (process.env.NODE_ENV !== 'production') {\n

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checkDynamicCreation(styledComponentId);\n }\n\n function GlobalStyleComponent(props:
GlobalStyleComponentPropsType) {\n  const styleSheet = useStyleSheet();\n  const stylis = useStylis();\n  const
theme = useContext(ThemeContext);\n  const instanceRef =
useRef(styleSheet.allocateGSInstance(styledComponentId));\n\n
  const instance = instanceRef.current;\n  if (process.env.NODE_ENV !== 'production' &&
React.Children.count(props.children)) {\n  // eslint-disable-next-line no-console\n  console.warn(\n    `The
global style component ${styledComponentId} was given child JSX. createGlobalStyle does not render children.`\n
  );\n  }\n\n  if (\n    process.env.NODE_ENV !== 'production' &&\n    rules.some(rule => typeof rule ===
'string' && rule.indexOf('@import') !== -1)\n  ) {\n  // eslint-disable-next-line no-console\n  console.warn(\n
    `Please do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in
production do not handle it well. Instead, we recommend using a library such as react-helmet to inject a typical
<link> meta tag to the stylesheet, or simply embedding it manually in your index.html <head> section for a simpler
app.`\n  );\n  }\n\n  if (styleSheet.server)
{\n  renderStyles(instance, props, styleSheet, theme, stylis);\n  }\n\n  if (!__SERVER__) {\n  // this
conditional is fine because it is compiled away for the relevant builds during minification,\n  // resulting in a
single unguarded hook call\n  // eslint-disable-next-line react-hooks/rules-of-hooks\n  useLayoutEffect(() =>
{\n  if (!styleSheet.server) {\n  renderStyles(instance, props, styleSheet, theme, stylis);\n  return () =>
globalStyle.removeStyles(instance, styleSheet);\n  } }, [instance, props, styleSheet, theme, stylis]);\n
}\n\n  return null;\n  }\n\n  function renderStyles(instance, props, styleSheet, theme, stylis) {\n  if
(globalStyle.isStatic) {\n  globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet,
stylis);\n  } else {\n  const context = {\n  ...props,\n  theme: determineTheme(props, theme,
GlobalStyleComponent.defaultProps),\n  };\n\n  globalStyle.renderStyles(instance,
context, styleSheet, stylis);\n  }\n  }\n\n  // $FlowFixMe\n  return React.memo(GlobalStyleComponent);\n  }\n\n", "//
@flow\n\nimport css from './css';\nimport generateComponentId from './utils/generateComponentId';\nimport
Keyframes from './models/Keyframes';\nimport type { Interpolation, Styles } from './types';\n\nexport default
function keyframes(\n  strings: Styles,\n  ...interpolations: Array<Interpolation>)\n): Keyframes {\n  /* Warning if
you've used keyframes on React Native *\n  if (\n    process.env.NODE_ENV !== 'production' &&\n    typeof
navigator !== 'undefined' &&\n    navigator.product === 'ReactNative'\n  ) {\n  // eslint-disable-next-line no-
console\n  console.warn(\n    `keyframes` cannot be used on ReactNative, only on the web. To do animation in
ReactNative please use Animated.`\n  );\n  }\n\n  const rules = css(strings, ...interpolations).join("");\n  const name =
generateComponentId(rules);\n  return new Keyframes(name, rules);\n  }\n\n", "//
@flow\n\nimport { useContext } from 'react';\nimport { ThemeContext } from './models/ThemeProvider';\n\nconst
useTheme = () => useContext(ThemeContext);\n\nexport default useTheme;\n", "// @flow\n\nimport React, {
useContext, type AbstractComponent } from 'react';\nimport hoistStatics from 'hoist-non-react-statics';\nimport {
ThemeContext } from './models/ThemeProvider';\nimport determineTheme from './utils/determineTheme';\nimport
getComponentName from './utils/getComponentName';\n\n// NOTE: this would be the correct signature:\n// export
default <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):
AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n// but the old build system
tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n  //
$FlowFixMe This should be React.forwardRef<Config, Instance>\n  const WithTheme = React.forwardRef((props,
ref) => {\n  const theme
= useContext(ThemeContext);\n  // $FlowFixMe defaultProps isn't declared so it can be inferrable\n  const {
defaultProps } = Component;\n  const themeProp = determineTheme(props, theme, defaultProps);\n\n  if
(process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n  // eslint-disable-next-line no-
console\n  console.warn(\n    `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a
theme in defaultProps in component class `\"${getComponentName(\n    Component\n  )}\"`\n  );\n  }\n\n  return <Component {...props} theme={themeProp} ref={ref} />.\n  });\n\n  hoistStatics(WithTheme,
Component);\n\n  WithTheme.displayName = `WithTheme(${getComponentName(Component)}`;\n\n  return

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WithTheme;\n};\n", "function memoize(fn) {\n  var cache = Object.create(null);\n  return function (arg) {\n    if\n    (cache[arg] === undefined) cache[arg] = fn(arg);\n    return cache[arg];\n  };\n}\n\nexport default\nmemoize;\n", "import memoize from\n\n '@emotion/memoize';\n\nvar reactPropsRegex =\n\n/^(children|dangerouslySetInnerHTML|key|ref|autoFocus|defaultValue|defaultChecked|innerHTML|suppressConten\ntEditableWarning|suppressHydrationWarning|valueLink|accept|acceptCharset|accessKey|action|allow|allowUserMed\nia|allowPaymentRequest|allowFullscreen|allowTransparency|alt|async|autocomplete|autoplay|capture|cellPadding|c\nellSpacing|challenge|charSet|checked|cite|className|cols|colSpan|content|contentEditable|contextMenu|cont\nrols|controlsList|coords|crossOrigin|data|dateTime|decoding|default|defer|dir|disabled|disablePictureInPicture|downlo\nad|draggable|encType|form|formAction|formEncType|formMethod|formNoValidate|formTarget|frameBorder|header\ns|height|hidden|high|href|hrefLang|htmlFor|httpEquiv|id|inputMode|integrity|is|keyParams|keyType|kind|label|lang|lis\nt|loading|loop|low|marginHeight|marginWidth|max|maxLength|media|mediaGroup|method|min|minLength|multiple|\nmuted|name|nonce|noValidate|open|optimum|pattern|placeholder|playsInline|poster|preload|profile|radioGroup|readO\nnly|referrerPolicy|rel|required|reversed|role|rows|rowSpan|sandbox|scope|scoped|scrolling|seamless|selected|shape|siz\nel|sizes|slot|span|spellCheck|src|srcDoc|srcLang|srcSet|start|step|style|summary|tabIndex|target|title|translate|type|use\nMap|value|width|wmode|wrap|about|dataType|inlist|prefix|property|resource|typeof|vocab|autoCapitalize|autoCorrect|\nautoSave|color|fallback|inert|itemProp|itemScope|itemType|itemID|itemRef|on|option|results|security|unselectable|ac\ncentHeight|accumulate|additive|alignmentBaseline|allowReorder|alphabetic|amplitude|arabicForm|ascent|attributeNa\nme|attributeType|autoReverse|azimuth|baseFrequency|baselineShift|baseProfile|bbox|begin|bias|by|calcMode|capHei\nght|clip|clipPathUnits|clipPath|clipRule|colorInterpolation|colorInterpolationFilters|colorProfile|colorRendering|cont\nentScriptType|contentType|cursor|cx|cy|d|decelerate|descent|diffuseConstant|direction|display|divisor|dominant\nBaseline|dur|dx|dy|edgeMode|elevation|enableBackground|end|exponent|externalResourcesRequired|fill|fillOpacity|fi\nllRule|filter|filterRes|filterUnits|floodColor|floodOpacity|focusable|fontFamily|fontSize|fontSizeAdjust|fontStretch|fo\nntStyle|fontVariant|fontWeight|format|from|fr|fx|fy|g1|g2|glyphName|glyphOrientationHorizontal|glyphOrientationV\nertical|glyphRef|gradientTransform|gradientUnits|hanging|horizAdvX|horizOriginX|ideographic|imageRendering|in|in\n2|intercept|k1|k2|k3|k4|kernelMatrix|kernelUnitLength|kerning|keyPoints|keySplines|keyTimes|lengthAdjust|letter\nSpacing|lightingColor|limitingConeAngle|local|markerEnd|markerMid|markerStart|markerHeight|markerUnits|marke\nrWidth|mask|maskContentUnits|maskUnits|mathematical|mode|numOctaves|offset|opacity|operator|order|orient|orien\ntation|origin|overflow|overlinePosition|overlineThickness|panose1|paintOrder|pathLength|patternContentUnits|patter\nnTransform|patternUnits|pointerEvents|points|pointsAtX|pointsAtY|pointsAtZ|preserveAlpha|preserveAspectRatio|p\nrimitiveUnits|r|radius|refX|refY|renderingIntent|repeatCount|repeatDur|requiredExtensions|requiredFeatures|restart|re\nsult|rotate|rx|ry|scale|seed|shapeRendering|slope|spacing|specularConstant|specularExponent|speed|spreadMethod|sta\nrtOffset|stdDeviation|stemh|stemv|stitchTiles|stopColor|stopOpacity|strikethroughPosition|strikethroughThickness|str\ning|stroke|strokeDasharray|strokeDashoffset|strokeLinecap|strokeLinejoin|strokeMiterlimit|strokeOpacity|strokeWidt\nh|surfaceScale|systemLanguage|tableValues|targetX|targetY|textAnchor|textDecoration|textRendering|textLength|to|t\nransform|u1|u2|underlinePosition|underlineThickness|unicode|unicodeBidi|unicodeRange|unitsPerEm|vAlphabetic|v\nHanging|vIdeographic|vMathematical|values|vectorEffect|version|vertAdvY|vertOriginX|vertOriginY|viewBox|view\nTarget|visibility|widths|wordSpacing|writingMode|x|xHeight|x1|x2|xChannelSelector|xlinkActuate|xlinkArcrole|xlin\nkHref|xlinkRole|xlinkShow|xlinkTitle|xlinkType|xmlBase|xmlNs|xmlnsXlink|xmlLang|xmlSpace|y1|y2|yChannelS\nelector|z|zoomAndPan|for|class|autofocus)|((([Dd][Aa][Tt][Aa][Rr][Ii][Aa]|x)-.*))$/;

// https://esbench.com/bench/5bfee68a4cd7e6009ef61d23\n\nvar isPropValid = /* #__PURE__ */memoize(function\n(prop) {\n  return reactPropsRegex.test(prop) || prop.charCodeAt(0) === 111\n  /* o */\n  && prop.charCodeAt(1)\n  === 110\n  /* n */\n  && prop.charCodeAt(2) < 91;\n  /* Z+1 */\n});\n\nexport default isPropValid;\n", "//\n\n@flow\n\n// Source: https://www.w3.org/TR/cssom-1/#serialize-an-identifier\n\n// Control characters and non-letter\nfirst symbols are not supported\n\nconst escapeRegex = /![\\\"#$%&'()*+,-./:;<=>?@[\\|\\]\\]^`{}~]+/g;\n\nconst\ndashesAtEnds = /^(^|-|$/g;\n\n/*\n * TODO: Explore using CSS.escape when it becomes more available\n * in\nevergreen browsers.\n */\n\nexport default function escape(str: string): string {\n  return (\n    str\n    // Replace all\n    possible CSS selectors\n    .replace(escapeRegex, '-')\n    // Remove extraneous hyphens at the start and end\n
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.replace(dashesAtEnds, "\n );\n}\n", "//
@flow\nimport type { IStyledComponent } from '../types';\n\nexport default function isTag(target:
$PropertyType<IStyledComponent, 'target'>): boolean %checks {\n  return (\n    typeof target === 'string' &&\n
(process.env.NODE_ENV !== 'production'\n    ? target.charAt(0) === target.charAt(0).toLowerCase()\n    :
true)\n  );\n}\n", "/* eslint-disable *\n**\n  mixin-deep; https://github.com/jonschlinkert/mixin-deep\n  Inlined such
that it will be consistently transpiled to an IE-compatible syntax.\n\n  The MIT License (MIT)\n\n  Copyright (c)
2014-present, Jon Schlinkert.\n\n  Permission is hereby granted, free of charge, to any person obtaining a copy\n
of this software and associated documentation files (the \"Software\"), to deal\n  in the Software without restriction,
including without limitation the rights\n  to use, copy, modify, merge, publish, distribute, sublicense, and/or sell\n
copies of the Software, and to permit persons to whom the Software is\n  furnished
to do so, subject to the following conditions:\n\n  The above copyright notice and this permission notice shall be
included in\n  all copies or substantial portions of the Software.\n\n  THE SOFTWARE IS PROVIDED \"AS IS\",
WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n  IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY,\n  FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE\n  AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER\n  LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,\n  OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN\n  THE SOFTWARE.\n\n  *\n  \nconst isObject = val => {\n  return (\n    typeof
val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val))\n  );\n};\n\nconst isValidKey
= key => {\n  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';\n};\n\nfunction
mixin(target, val, key) {\n  const obj = target[key];\n
  if (isObject(val) && isObject(obj)) {\n    mixinDeep(obj, val);\n  } else {\n    target[key] = val;\n  }\n}\n\nexport
default function mixinDeep(target, ...rest) {\n  for (const obj of rest) {\n    if (isObject(obj)) {\n      for (const key in
obj) {\n        if (isValidKey(key)) {\n          mixin(target, obj[key], key);\n        }\n      }\n    }\n  }\n  return
target;\n}\n", "/* @flow\nimport validAttr from '@emotion/is-prop-valid';\nimport hoist from 'hoist-non-react-
statics';\nimport React, { createElement, type Ref, useContext } from 'react';\nimport { SC_VERSION } from
'./constants';\nimport type {\n  Attrs,\n  IStyledComponent,\n  IStyledStatics,\n  RuleSet,\n  ShouldForwardProp,\n
  Target,\n} from '../types';\nimport { checkDynamicCreation } from '../utils/checkDynamicCreation';\nimport
createWarnTooManyClasses from '../utils/createWarnTooManyClasses';\nimport determineTheme from
'../utils/determineTheme';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';\nimport
escape from '../utils/escape';\nimport generateComponentId from '../utils/generateComponentId';\nimport
generateDisplayName from '../utils/generateDisplayName';\nimport getComponentName from
'../utils/getComponentName';\nimport isFunction from '../utils/isFunction';\nimport isStyledComponent from
'../utils/isStyledComponent';\nimport isTag from '../utils/isTag';\nimport joinStrings from
'../utils/joinStrings';\nimport merge from '../utils/mixinDeep';\nimport ComponentStyle from
'./ComponentStyle';\nimport { useStyleSheet, useStylis } from './StyleSheetManager';\nimport { ThemeContext }
from './ThemeProvider';\n\nconst identifiers = {};\n\n/* We depend on components having unique IDs */\nfunction
generateId(displayName?: string, parentComponentId?: string) {\n  const name = typeof displayName !== 'string' ?
'sc' : escape(displayName);\n  // Ensure that no displayName can lead to duplicate componentIds\n
  identifiers[name] = (identifiers[name] || 0) + 1;\n\n  const componentId
= `${name}-${generateComponentId(\n    // SC_VERSION gives us isolation between multiple runtimes on the
page at once\n    // this is improved further with use of the babel plugin \"namespace\" feature\n    SC_VERSION +
name + identifiers[name]\n  )}`;\n  return parentComponentId ? `${parentComponentId}-${componentId}` :
componentId;\n}\n\nfunction useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs:
Attrs) {\n  // NOTE: can't memoize this\n  // returns [context, resolvedAttrs]\n  // where resolvedAttrs is only the
things injected by the attrs themselves\n  const context = { ...props, theme }; \n  const resolvedAttrs = {};\n
  attrs.forEach(attrDef => {\n    let resolvedAttrDef = attrDef;\n    let key;\n\n    if (isFunction(resolvedAttrDef)) {\n
      resolvedAttrDef = resolvedAttrDef(context);\n    }\n\n    /* eslint-disable guard-for-in *\n    for (key in

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resolvedAttrDef) {\n  context[key] = resolvedAttrs[key] =\n    key === 'className'\n  ?
joinStrings(resolvedAttrs[key],
  resolvedAttrDef[key])\n    : resolvedAttrDef[key];\n  }\n  /* eslint-enable guard-for-in */\n});\n\n return
[context, resolvedAttrs];\n}\n\nfunction useInjectedStyle<T>(\n  componentStyle: ComponentStyle,\n  isStatic:
boolean,\n  resolvedAttrs: T,\n  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string,
string>)\n {\n  const styleSheet = useStyleSheet();\n  const stylis = useStylis();\n  const className = isStatic\n  ?
componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)\n  :
componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n  \n  if (process.env.NODE_ENV !==
'production' && !isStatic && warnTooManyClasses) {\n    warnTooManyClasses(className);\n  }\n  \n  return
className;\n}\n\nfunction useStyledComponentImpl(\n  forwardedComponent: IStyledComponent,\n  props:
Object,\n  forwardedRef: Ref<any>,\n  isStatic: boolean)\n {\n  const {\n    attrs: componentAttrs,\n
componentStyle,\n
    defaultProps,\n    foldedComponentIds,\n    shouldForwardProp,\n    styledComponentId,\n    target,\n  } =
forwardedComponent;\n  \n  // NOTE: the non-hooks version only subscribes to this when
!componentStyle.isStatic,\n  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it\n
// should be an immutable value, but behave for now.\n  const theme = determineTheme(props,
useContext(ThemeContext), defaultProps);\n  \n  const [context, attrs] = useResolvedAttrs(theme ||
EMPTY_OBJECT, props, componentAttrs);\n  \n  const generatedClassName = useInjectedStyle(\n
componentStyle,\n  isStatic,\n  context,\n  process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n  );\n  \n  const refToForward = forwardedRef;\n  \n  const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n  \n  const isTargetTag =
isTag(elementToBeCreated);\n  \n  const computedProps = attrs !== props ? { ...props, ...attrs }
: props;\n  \n  const propsForElement = {};\n  \n  // eslint-disable-next-line guard-for-in\n  for (const key in
computedProps) {\n    if (key[0] === '$' || key === 'as') continue;\n    else if (key === 'forwardedAs') {\n
propsForElement.as = computedProps[key];\n    } else if (\n      shouldForwardProp\n      ?
shouldForwardProp(key, validAttr, elementToBeCreated)\n      : isTargetTag\n      ? validAttr(key)\n      : true\n
) {\n    // Don't pass through non HTML tags through to HTML elements\n    propsForElement[key] =
computedProps[key];\n    }\n  }\n  \n  \n  if (props.style && attrs.style !== props.style) {\n    propsForElement.style = {
...props.style, ...attrs.style };\n  }\n  \n  propsForElement.className = Array.prototype\n    .concat(\n
foldedComponentIds,\n    styledComponentId,\n    generatedClassName !== styledComponentId ?
generatedClassName : null,\n    props.className,\n    attrs.className\n  )\n    .filter(Boolean)\n    .join(' ');\n  \n
propsForElement.ref
= refToForward;\n  \n  return createElement(elementToBeCreated, propsForElement);\n}\n\nexport default function
createStyledComponent(\n  target: $PropertyType<IStyledComponent, 'target'>,\n  options: {\n    attrs?: Attrs,\n
componentId: string,\n    displayName?: string,\n    parentComponentId?: string,\n    shouldForwardProp?:
ShouldForwardProp,\n  },\n  rules: RuleSet)\n {\n  const isTargetStyledComp = isStyledComponent(target);\n  const
isCompositeComponent = !isTag(target);\n  \n  const {\n    attrs = EMPTY_ARRAY,\n    componentId =
generateId(options.displayName, options.parentComponentId),\n    displayName = generateDisplayName(target),\n
  } = options;\n  \n  const styledComponentId =\n    options.displayName && options.componentId\n    ?
`${escape(options.displayName)}-${options.componentId}`\n    : options.componentId || componentId;\n  \n  // fold
the underlying StyledComponent attrs up (implicit extend)\n  const finalAttrs =\n    isTargetStyledComp &&
((target: any):
IStyledComponent).attrs\n    ? Array.prototype.concat(((target: any): IStyledComponent).attrs,
attrs).filter(Boolean)\n    : attrs;\n  \n  // eslint-disable-next-line prefer-destructuring\n  let shouldForwardProp =
options.shouldForwardProp;\n  \n  if (isTargetStyledComp && target.shouldForwardProp) {\n    if
(options.shouldForwardProp) {\n      // compose nested shouldForwardProp calls\n      shouldForwardProp = (prop,
filterFn, elementToBeCreated) =>\n        (((target: any): IStyledComponent).shouldForwardProp: any):
ShouldForwardProp)(\n        prop,\n        filterFn,\n        elementToBeCreated\n      ) &&\n

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((options.shouldForwardProp: any): ShouldForwardProp)(prop, filterFn, elementToBeCreated);\n  } else {\n    //
eslint-disable-next-line prefer-destructuring\n    shouldForwardProp = ((target: any):
IStyledComponent).shouldForwardProp;\n  }\n}\n\nconst componentStyle = new ComponentStyle(\n  rules,\n  styledComponentId,\n  isTargetStyledComp
? ((target: Object).componentStyle: ComponentStyle) : undefined\n);\n\n// statically styled-components don't
need to build an execution context object,\n// and shouldn't be increasing the number of class names\nconst
isStatic = componentStyle.isStatic && attrs.length === 0;\n\n/**\n * forwardRef creates a new interim
component, which we'll take advantage of\n * instead of extending ParentComponent to create _another_ interim
class\n */\nlet WrappedStyledComponent: IStyledComponent;\n\nconst forwardRef = (props, ref) =>\n//
eslint-disable-next-line\nuseStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);\n\nforwardRef.displayName = displayName;\n\nWrappedStyledComponent = ((React.forwardRef(forwardRef): any):
IStyledComponent);\n\nWrappedStyledComponent.attrs = finalAttrs;\n\nWrappedStyledComponent.componentStyle
= componentStyle;\n\nWrappedStyledComponent.displayName = displayName;\n\nWrappedStyledComponent.shouldForwardProp = shouldForwardProp;\n\n
// this static is used to preserve the cascade of static classes for component selector\n// purposes; this is especially
important with usage of the css prop\n\nWrappedStyledComponent.foldedComponentIds = isTargetStyledComp\n? Array.prototype.concat(\n  ((target: any): IStyledComponent).foldedComponentIds,\n  ((target: any):
IStyledComponent).styledComponentId\n)\n  : EMPTY_ARRAY;\n\nWrappedStyledComponent.styledComponentId = styledComponentId;\n\n// fold the underlying StyledComponent
target up since we folded the styles\n\nWrappedStyledComponent.target = isTargetStyledComp\n? ((target: any):
IStyledComponent).target\n  : target;\n\nWrappedStyledComponent.withComponent = function
withComponent(tag: Target) {\n  const { componentId: previousComponentId, ...optionsToCopy } = options;\n\n  const newComponentId =\n    previousComponentId &&\n    `${previousComponentId}-${isTag(tag) ? tag :
escape(getComponentName(tag))}`;\n\n  const
newOptions = {\n    ...optionsToCopy,\n    attrs: finalAttrs,\n    componentId: newComponentId,\n  };\n\n  return createStyledComponent(tag, newOptions, rules);\n};\n\nObject.defineProperty(WrappedStyledComponent,
'defaultProps', {\n  get() {\n    return this._foldedDefaultProps;\n  },\n  set(obj) {\n    this._foldedDefaultProps = isTargetStyledComp\n      ? merge({}, ((target: any): IStyledComponent).defaultProps,
obj)\n      : obj;\n  },\n});\n\nif (process.env.NODE_ENV !== 'production') {\n
checkDynamicCreation(displayName, styledComponentId);\n\nWrappedStyledComponent.warnTooManyClasses
= createWarnTooManyClasses(\n  displayName,\n  styledComponentId\n);\n}\n\n// If the Object
prototype is frozen, the "toString" property is non-writable. This means that any objects which inherit this
property\n// cannot have the property changed using an assignment. If using strict mode, attempting that will cause
an error. If not using
strict\n// mode, attempting that will be silently ignored.\n// However, we can still explicitly shadow the
prototype's "toString" property by defining a new "toString" property on this object.\n\nObject.defineProperty(WrappedStyledComponent, 'toString', { value: () =>
`${WrappedStyledComponent.styledComponentId}` });\n\nif (isCompositeComponent) {\n  hoist<\n
IStyledStatics,\n  $PropertyType<IStyledComponent, 'target'>,\n  { [key: $Keys<IStyledStatics>]: true }\n>(WrappedStyledComponent, ((target: any): $PropertyType<IStyledComponent, 'target'>), {\n  // all SC-specific
things should not be hoisted\n  attrs: true,\n  componentStyle: true,\n  displayName: true,\n  foldedComponentIds: true,\n  shouldForwardProp: true,\n  styledComponentId: true,\n  target: true,\n  withComponent: true,\n});\n}\n\nreturn WrappedStyledComponent;\n}\n\n", /* @flow\nimport type {
IStyledComponent } from './types';\nimport getComponentName
from './getComponentName';\nimport isTag from './isTag';\n\nexport default function generateDisplayName(\n
target: $PropertyType<IStyledComponent, 'target'>): string {\n  return isTag(target) ? `styled.${target}` :
`Styled(${getComponentName(target)}`;\n}\n\n", /***\n * Convenience function for joining strings to form
className chains\n */\n\nexport default function joinStrings(a: ?String, b: ?String): ?String {\n  return a && b ? `${a}

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${b}` : a || b;\n\n", "// @flow\n\nexport const LIMIT = 200;\n\nexport default (displayName: string, componentId:
string) => {\n  let generatedClasses = {};\n  let warningSeen = false;\n\n  return (className: string) => {\n    if
(!warningSeen) {\n      generatedClasses[className] = true;\n      if (Object.keys(generatedClasses).length >=
LIMIT) {\n        // Unable to find latestRule in test environment.\n        /* eslint-disable no-console, prefer-template
*/\n        const parsedIdString = componentId ? ` with the id of "${componentId}"` :
"";\n        console.warn(`Over ${LIMIT} classes were generated for component
${displayName}${parsedIdString}.`);\n        `Consider using the attrs method, together with a style object for
frequently changed styles.`\n        `Example:`\n        `const Component = styled.div.attrs(props =>
({\n          style: {\n            background: props.background,\n          },\n          `
`))`width: 100%;`\n        `<Component />`\n        );\n        warningSeen = true;\n        generatedClasses =
{};\n      }\n    }\n  };\n};\n\n", "// @flow\n\nimport constructWithOptions from './constructWithOptions';\n\nimport
StyledComponent from './models/StyledComponent';\n\nimport domElements from './utils/domElements';\n\nimport
type { Target } from './types';\n\nconst styled = (tag: Target) => constructWithOptions(StyledComponent,
tag);\n\n// Shorthands for all valid HTML Elements\ndomElements.forEach(domElement
=> {\n  styled[domElement] = styled(domElement);\n});\n\nexport default styled;\n\n", "// @flow\n\nimport {
isValidElementType } from 'react-is';\n\nimport css from './css';\n\nimport throwStyledError from './utils/error';\n\nimport
{ EMPTY_OBJECT } from './utils/empties';\n\nimport type { Target } from './types';\n\nexport default function
constructWithOptions(\n  componentConstructor: Function,\n  tag: Target,\n  options: Object =
EMPTY_OBJECT\n) {\n  if (!isValidElementType(tag)) {\n    return throwStyledError(1, String(tag));\n  }\n\n  /*
This is callable directly as a template function */\n  // $FlowFixMe: Not typed to avoid destructuring arguments\n
const templateFunction = (...args) => componentConstructor(tag, options, css(...args));\n\n  /* If config methods are
called, wrap up a new template function and merge options */\n  templateFunction.withConfig = config =>\n
constructWithOptions(componentConstructor, tag, { ...options, ...config });\n\n  /* Modify/inject new props
at runtime */\n  templateFunction.attrs = attrs =>\n    constructWithOptions(componentConstructor, tag, {\n
...options,\n    attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),\n  });\n\n  return
templateFunction;\n}\n\n", "// @flow\n\nimport * as secondary from './base';\n\n/* Import singleton constructors
*/\n\nimport styled from './constructors/styled';\n\n/**\n * eliminates the need to do styled.default since the other
APIs\n * are directly assigned as properties to the main function\n * */\n\n// eslint-disable-next-line guard-for-in\nfor
(const key in secondary) {\n  styled[key] = secondary[key];\n}\n\nexport default styled;\n\n", "// @flow\n\n// Thanks to
ReactDOMFactories for this handy list!\n\nexport default [\n  'a',\n  'abbr',\n  'address',\n  'area',\n  'article',\n
'aside',\n  'audio',\n  'b',\n  'base',\n  'bdi',\n  'bdo',\n  'big',\n  'blockquote',\n  'body',\n  'br',\n  'button',\n
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'u',\n  'ul',\n  'var',\n  'video',\n  'wbr',\n\n // SVG\n  'circle',\n  'clipPath',\n  'defs',\n  'ellipse',\n  'foreignObject',\n
'g',\n  'image',\n  'line',\n  'linearGradient',\n  'marker',\n  'mask',\n  'path',\n  'pattern',\n  'polygon',\n  'polyline',\n
'radialGradient',\n  'rect',\n  'stop',\n  'svg',\n  'text',\n  'textPath',\n
'tspan',\n];\n\n", "names": ["isStyledComponent", "target", "styledComponentId", "strings", "interpolations", "result", "i", "l
en", "length", "push", "x", "toString", "Object", "prototype", "call", "typeof", "EMPTY_ARRAY", "freeze", "EMPTY_OB
JECT", "isFunction", "test", "getComponentName", "displayName", "name", "SC_ATTR", "process", "env", "REACT_A
PP_SC_ATTR", "IS_BROWSER", "window", "DISABLE_SPEEDY", "Boolean", "SC_DISABLE_SPEEDY", "REAC
T_APP_SC_DISABLE_SPEEDY", "STATIC_EXECUTION_CONTEXT", "ERRORS", "format", "a", "b", "c", "argum

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ents", "forEach", "d", "replace", "throwStyledComponentsError", "code", "Error", "trim", "DefaultGroupedTag", "tag", "groupSizes", "Uint32Array", "indexOfGroup", "group", "index", "this", "insertRules", "rules", "oldBuffer", "oldSize", "newSize", "throwStyledError", "set", "ruleIndex", "I", "insertRule", "clearGroup", "startIndex", "endIndex", "deleteRule", "getGroup", "css", "getRule", "groupIDRegister", "Map", "reverseRegister", "nextFreeGroup", "getGroupForId", "id", "has", "get", "getIdForGroup", "setGroupForId", "SELECTOR", "MARKER\_RE", "RegExp", "rehydrateNamesFromContent", "sheet", "content", "names", "split", "registerName", "rehydrateSheetFromTag", "style", "parts", "textContent", "part", "marker", "match", "parseInt", "getTag", "getNonce", "\_\_webpack\_nonce\_\_", "makeStyleTag", "head", "document", "parent", "createElement", "prevStyle", "childNodes", "child", "nodeType", "hasAttribute", "findLastStyleTag", "nextSibling", "undefined", "setAttribute", "\_\_VERSION\_\_", "nonce", "insertBefore", "CSSOMTag", "element", "appendChild", "createTextNode", "styleSheets", "ownerNode", "getSheet", "rule", "\_error", "cssRules", "cssText", "TextTag", "nodes", "node", "refNode", "removeChild", "VirtualTag", "\_target", "splice", "SHOULD\_REHYDRATE", "defaultOptions", "isServer", "useCSSOMInjection", "StyleSheet", "options", "globalStyles", "gs", "server", "querySelectorAll", "getAttribute", "parentNode", "rehydrateSheet", "registerId", "reconstructWithOptions", "withNames", "allocateGSInstance", "hasNameForId", "add", "groupNames", "Set", "clearNames", "clear", "clearRules", "clearTag", "size", "selector", "outputSheet", "AD\_REPLACE\_R\_R", "getAlphabeticChar", "String", "fromCharCode", "generateAlphabeticName", "Math", "abs", "phash", "h", "charCodeAt", "hash", "SEED", "ComponentStyle", "componentId", "baseStyle", "staticRulesId", "isStatic", "baseHash", "generateAndInjectStyles", "executionContext", "styleSheet", "stylis", "cssStatic", "flatten", "join", "generateName", "cssStaticFormatted", "dynamicHash", "partRule", "partChunk", "partString", "Array", "isArray", "cssFormatted", "stylis\_min", "W", "X", "e", "ia", "m", "Z", "v", "n", "F", "indexOf", "P", "substring", "w", "L", "ja", "ka", "aa", "G", "ba", "la", "ma", "R", "na", "ea", "oa", "H", "q", "g", "A", "S", "B", "U", "prefix", "D", "z", "M", "k", "y", "C", "K", "u", "r", "I", "t", "J", "f", "p", "N", "charAt", "ca", "O", "da", "fa", "Y", "E", "ha", "Q", "use", "T", "COMMENT\_REGEX", "COMPLEX\_SELECTOR\_PREFIX", "createStylisInstance", "\_componentId", "\_selector", "\_selectorRegexp", "\_consecutiveSelfRefRegExp", "plugins", "Stylis", "parsingRules", "parseRulesPlugin", "toSheet", "block", "context", "selectors", "parents", "line", "column", "ns", "depth", "at", "delimiter", "insertRulePlugin", "selfReferenceReplacer", "offset", "string", "stringifyRules", "flatCSS", "cssStr", "\_", "lastIndexOf", "parsedRules", "reduce", "acc", "plugin", "StyleSheetContext", "React", "createContext", "StyleSheetConsumer", "Consumer", "StylisContext", "masterSheet", "masterStylis", "useStyleSheet", "useContext", "useStylis", "StyleSheetManager", "props", "useState", "stylisPlugins", "setPlugins", "contextStyleSheet", "useMemo", "disableCSSOMInjection", "disableVendorPrefixes", "useEffect", "objA", "objB", "compare", "compareContext", "ret", "keysA", "keys", "keysB", "bHasOwnProperty", "hasOwnProperty", "bind", "idx", "key", "valueA", "valueB", "shallowequal", "Provider", "value", "Children", "only", "children", "Keyframes", "inject", "stylisInstance", "resolvedName", "\_this", "getName", "uppercaseCheck", "uppercasePattern", "msPattern", "prefixAndLowerCase", "char", "toLowerCase", "hyphenateStyleName", "unitlessKeys", "animationIterationCount", "borderImageOutset", "borderImageSlice", "borderImageWidth", "boxFlex", "boxFlexGroup", "boxOrdinalGroup", "columnCount", "columns", "flex", "flexGrow", "flexPositive", "flexShrink", "flexNegative", "flexOrder", "gridRow", 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Found

in path(s):

\* /opt/cola/permits/1746168271\_1689423272.5543272/0/styled-components-5-3-11-tgz/package/dist/styled-components.js.map

No license file was found, but licenses were detected in source scan.

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```

```

@flow\n/* eslint-disable no-bitwise *\n\nconst AD_REPLACER_R = /(a)(d)/gi;\n\n/* This is the "capacity" of
our alphabet i.e. 2x26 for all letters plus their capitalised\n * counterparts *\nconst charsLength = 52;\n\n/* start at
75 for 'a' until 'z' (25) and then start at 65 for capitalised letters *\nconst getAlphabeticChar = (code: number): string
=>\n String.fromCharCode(code + (code > 25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to
base-52 *\nexport default function generateAlphabeticName(code: number): string {\n let name = "";\n let x;\n\n /*
get a char and
divide by alphabet-length *\n for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n name =
getAlphabeticChar(x % charsLength) + name;\n }\n\n return (getAlphabeticChar(x % charsLength) +
name).replace(AD_REPLACER_R, '$1-$2');\n}\n\n", "// @flow\n/* eslint-disable *\n\nexport const SEED =
5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that
we're still looping over\n// the same string\nexport const phash = (h: number, x: string): number => {\n let i =
x.length;\n\n while (i) {\n h = (h * 33) ^ x.charCodeAt(--i);\n }\n\n return h;\n};\n\n// This is a djb2 hashing
function\nexport const hash = (x: string): number => {\n return phash(SEED, x);\n};\n\n", "// @flow\n/* eslint-disable
*\n\nimport generateAlphabeticName from './generateAlphabeticName';\nimport { hash } from './hash';\n\nexport
default (str: string): string => {\n return generateAlphabeticName(hash(str) >>> 0);\n};\n\n", "// @flow\nimport
type { IStyledComponent } from './types';\n\nexport default function getComponentName(\n target:
$PropertyType<IStyledComponent, 'target'>): string {\n return (\n (process.env.NODE_ENV !== 'production' ?
typeof target === 'string' && target : false) ||\n // $FlowFixMe\n target.displayName ||\n // $FlowFixMe\n
target.name ||\n 'Component'\n );\n}\n\n", "// @flow\nexport default function isFunction(test: any): boolean %checks
{\n return typeof test === 'function';\n}\n\n", "// @flow\nexport default function isStatelessFunction(test: any):
boolean {\n return (\n typeof test === 'function'\n && !(\n test.prototype\n &&
test.prototype.isReactComponent\n )\n );\n}\n\n", "// @flow\nimport { typeOf } from 'react-is';\n\nexport default (x:
any): boolean =>\n x !== null &&\n typeof x === 'object' &&\n (x.toString ? x.toString() :
Object.prototype.toString.call(x)) === '[object Object]' &&\n !typeof(x);\n\n", "// @flow\nexport default function
isStyledComponent(target:
any): boolean %checks {\n return target && typeof target.styledComponentId === 'string';\n}\n\n", "//
@flow\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\ndeclare var __VERSION__: string;\n\nexport const
SC_ATTR: string =\n (typeof process !== 'undefined' &&\n typeof process.env !== 'undefined' &&\n
(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\nexport const SC_ATTR_VERSION = 'data-styled-version';\nexport const
SC_VERSION = __VERSION__;\nexport const SPLITTER = '/*!sc*\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n typeof
SC_DISABLE_SPEEDY === 'boolean'\n ? SC_DISABLE_SPEEDY\n : typeof process !== 'undefined' &&

```

```

typeof process.env !== 'undefined' ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'
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process.env.REACT_APP_SC_DISABLE_SPEEDY
=== 'false' ? false : process.env.REACT_APP_SC_DISABLE_SPEEDY : typeof
process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== "" ?
process.env.SC_DISABLE_SPEEDY === 'false' ? false : process.env.SC_DISABLE_SPEEDY :
process.env.NODE_ENV !== 'production' ? false : false;
// Shared empty execution context when generating
static styles
export const STATIC_EXECUTION_CONTEXT = {};
// @flow
export const EMPTY_ARRAY
= Object.freeze([]);
export const EMPTY_OBJECT = Object.freeze({});
export default {"1": "Cannot create
styled-component for component: %s.", "2": "Can't collect styles once you've consumed a
`ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.", "3": "Streaming SSR
is only supported in a Node.js
environment; Please do not try to call this method in the browser.", "4": "The `StyleSheetManager` expects a
valid target or sheet prop!", "5": "The clone method cannot be used on the client!", "6": "Trying
to insert a new style tag, but the given Node is unmounted!", "7": "ThemeProvider: Please return an object from your `theme` prop function,
e.g. `js\ntime={() => ({})}`", "8": "ThemeProvider: Please make your `theme` prop an
object.", "9": "Missing document <head>", "10": "Cannot find a StyleSheet
instance. Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue
for how to troubleshoot and fix the common cases where this situation can happen: https://github.com/styled-
components/styled-components/issues/1941#issuecomment-417862021", "11": "_ This error was replaced
with a dev-time warning, it will be deleted for v4 final.", "12": "It seems you are interpolating
a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer
supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css` helper which
ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css", "13": "%s is
not a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components
for more details.", "14": "ThemeProvider: `theme` prop is required.", "15": "A stylis plugin has
been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between
different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager
stylisPlugins={[]}>`, please make sure each plugin is uniquely-named,
e.g. `js\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name'
});`", "16": "Reached the limit of how many styled components may be created at group %s.\nYou may
only create up to 1,073,741,824 components. If you're creating components dynamically, \nas for instance in your
render method then you may be running into this limitation.", "17": "CSSStyleSheet could not be found on
HTMLStyleElement.\nHas styled-components' style tag been unmounted or altered by another script?";
//
@flow
import errorMap from './errors';
const ERRORS = process.env.NODE_ENV !== 'production' ?
errorMap : {};
* super basic version of sprintf
function format(...args) {
  let a = args[0];
  const b =
[];
  for (let c = 1, len = args.length; c < len; c += 1) {
    b.push(args[c]);
  }
  b.forEach(d => {
    a =
a.replace(/%[a-z]/, d);
  });
  return a;
}
* Create an error file out of errors.md for development and a
simple web link to the full errors
* in production mode.
export default function
throwStyledComponentsError(\n code: string | number, \n ...interpolations: Array<any>(\n) {\n if
(process.env.NODE_ENV === 'production') {\n   throw new Error(\n     `An error occurred. See

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https://git.io/JUIaE#{code} for more information.$\n    interpolations.length > 0 ? ` Args:
{interpolations.join(', ')}` : "\n    }\n    );\n    } else {\n    throw new Error(format(ERRORS[code],
...interpolations).trim());\n    }\n}\n", "//
@flow\n/* eslint-disable no-use-before-define */\n\nimport type { GroupedTag, Tag } from './types';\nimport {
SPLITTER } from './constants';\nimport throwStyledError from './utils/error';\n\n/** Create a GroupedTag with an
underlying Tag implementation */\n\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n    return new
DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements
GroupedTag {\n    groupSizes: Uint32Array;\n\n    length: number;\n\n    tag: Tag;\n\n    constructor(tag: Tag) {\n
this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n    }\n\n
indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n    index +=
this.groupSizes[i];\n    }\n\n    return index;\n    }\n\n    insertRules(group: number, rules: string[]): void {\n    if (group
>= this.groupSizes.length) {\n    const oldBuffer = this.groupSizes;\n    const oldSize = oldBuffer.length;\n\n
    let newSize = oldSize;\n    while (group >= newSize) {\n    newSize <<= 1;\n    if (newSize < 0) {\n
throwStyledError(16, `${group}`);\n    }\n    }\n\n    this.groupSizes = new Uint32Array(newSize);\n
this.groupSizes.set(oldBuffer);\n    this.length = newSize;\n\n    for (let i = oldSize; i < newSize; i++) {\n
this.groupSizes[i] = 0;\n    }\n    }\n\n    let ruleIndex = this.indexOfGroup(group + 1);\n    for (let i = 0, l =
rules.length; i < l; i++) {\n    if (this.tag.insertRule(ruleIndex, rules[i])) {\n    this.groupSizes[group]++;;\n
ruleIndex++;;\n    }\n    }\n    }\n\n    clearGroup(group: number): void {\n    if (group < this.length) {\n    const
length = this.groupSizes[group];\n    const startIndex = this.indexOfGroup(group);\n    const endIndex =
startIndex + length;\n\n    this.groupSizes[group] = 0;\n\n    for (let i = startIndex; i < endIndex; i++) {\n
this.tag.deleteRule(startIndex);\n
    }\n    }\n    }\n\n    getGroup(group: number): string {\n    let css = "";\n    if (group >= this.length ||
this.groupSizes[group] === 0) {\n    return css;\n    }\n\n    const length = this.groupSizes[group];\n    const
startIndex = this.indexOfGroup(group);\n    const endIndex = startIndex + length;\n\n    for (let i = startIndex; i <
endIndex; i++) {\n    css += `${this.tag.getRule(i)}${SPLITTER}`;\n    }\n\n    return css;\n    }\n}\n", "//
@flow\n\nimport throwStyledError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister:
Map<string, number> = new Map();\nlet reverseRegister: Map<number, string> = new Map();\nlet nextFreeGroup =
1;\n\nexport const resetGroupIds = () => {\n    groupIDRegister = new Map();\n    reverseRegister = new Map();\n
nextFreeGroup = 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n    if (groupIDRegister.has(id))
{\n    return (groupIDRegister.get(id): any);\n    }\n\n    while (reverseRegister.has(nextFreeGroup)) {\n
nextFreeGroup++;\n    }\n\n    const group = nextFreeGroup++;\n\n    if (\n    process.env.NODE_ENV !== 'production'
&&\n    ((group | 0) < 0 || group > MAX_SMI)\n    ) {\n    throwStyledError(16, `${group}`);\n    }\n\n    groupIDRegister.set(id, group);\n    reverseRegister.set(group, id);\n    return group;\n};\n\nexport const
getIdForGroup = (group: number): void | string => {\n    return reverseRegister.get(group);\n};\n\nexport const
setGroupForId = (id: string, group: number) => {\n    if (group >= nextFreeGroup) {\n    nextFreeGroup = group +
1;\n    }\n\n    groupIDRegister.set(id, group);\n    reverseRegister.set(group, id);\n};\n", "// @flow\n\nimport {
SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport
{ getIdForGroup, setGroupForId } from './GroupIDAllocator';\nimport type { Sheet } from './types';\n\nconst
SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;\n\nconst MARKER_RE =
new RegExp(`^${SC_ATTR}\\\\.g(\\\\d+)[id=\\'(\\\\w\\\\d-)+\\'\\\\\\\\.*?\\'([\\^\\"]*)`);\n\nexport
const outputSheet = (sheet: Sheet) => {\n    const tag = sheet.getTag();\n    const { length } = tag;\n    let css = "";\n
for (let group = 0; group < length; group++) {\n    const id = getIdForGroup(group);\n    if (id === undefined)
continue;\n\n    const names = sheet.names.get(id);\n    const rules = tag.getGroup(group);\n    if (!names || !rules ||
!names.size) continue;\n\n    const selector = `${SC_ATTR}.g${group}[id=\\'${id}\\'}`;\n\n    let content = "";\n    if
(names !== undefined) {\n    names.forEach(name => {\n    if (name.length > 0) {\n    content +=
`${name},`;\n    }\n    });\n    }\n\n    // NOTE: It's easier to collect rules and have the marker\n    // after the
actual rules to simplify the rehydration\n    css += `${rules}${selector}{content:\\'${content}\\'}`;\n\n    }\n\n    return css;\n};\n\nconst rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n    const

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names = content.split(',')\n
  let name;\n\n for (let i = 0, l = names.length; i < l; i++) {\n // eslint-disable-next-line\n if ((name = names[i]))\n {\n sheet.registerName(id, name);\n }\n };\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:\n HTMLStyleElement) => {\n const parts = (style.textContent || "").split(SPLITTER);\n const rules: string[] = [];\n\n for (let i = 0, l = parts.length; i < l; i++) {\n const part = parts[i].trim();\n if (!part) continue;\n\n const marker =\n part.match(MARKER_RE);\n\n if (marker) {\n const group = parseInt(marker[1], 10) | 0;\n const id =\n marker[2];\n\n if (group !== 0) {\n // Rehydrate componentId to group index mapping\n\n setGroupForId(id, group);\n // Rehydrate names and rules\n // looks like: data-\n styled.g11[id="idA"]{content:"nameA,"}\n rehydrateNamesFromContent(sheet, id, marker[3]);\n\n sheet.getTag().insertRules(group, rules);\n }\n\n rules.length = 0;\n } else {\n\n rules.push(part);\n }\n }\n };\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n const nodes =\n document.querySelectorAll(SELECTOR);\n\n for (let i = 0, l = nodes.length; i < l; i++) {\n const node =\n ((nodes[i]: any): HTMLStyleElement);\n if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)\n {\n rehydrateSheetFromTag(sheet, node);\n\n if (node.parentNode) {\n\n node.parentNode.removeChild(node);\n }\n }\n }\n };\n\n/** @flow\n/* eslint-disable camelcase, no-undef\n*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n return typeof __webpack_nonce__\n !== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n\n/** @flow\n\nimport { SC_ATTR,\n SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from\n './utils/nonce';\nimport throwStyledError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /*\nNode.ELEMENT_TYPE *\n\n/** Find last style element if any inside target *\n\nconst\n findLastStyleTag = (target: HTMLInputElement): void | HTMLStyleElement => {\n const { childNodes } = target;\n\n for (let i = childNodes.length; i >= 0; i--) {\n const child = ((childNodes[i]: any): ?HTMLInputElement);\n if (child\n && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n return ((child: any):\n HTMLStyleElement);\n }\n }\n\n return undefined;\n};\n\n/** Create a style element inside `target` or <head>\nafter the last *\n\nexport const makeStyleTag = (target?: HTMLInputElement): HTMLStyleElement => {\n const head =\n ((document.head: any): HTMLInputElement);\n const parent = target || head;\n const style =\n document.createElement('style');\n const prevStyle = findLastStyleTag(parent);\n const nextSibling = prevStyle\n !== undefined ? prevStyle.nextSibling : null;\n style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n\n const nonce = getNonce();\n\n if (nonce)\n style.setAttribute('nonce', nonce);\n\n parent.insertBefore(style,\n\n nextSibling);\n\n return style;\n};\n\n/** Get the CSSStyleSheet instance for a given style element *\n\nexport const\n getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n if (tag.sheet) {\n return ((tag.sheet: any):\n CSSStyleSheet);\n }\n\n // Avoid Firefox quirk where the style element might not have a sheet property\n const {\n styleSheets } = document;\n\n for (let i = 0, l = styleSheets.length; i < l; i++) {\n const sheet = styleSheets[i];\n\n if\n (sheet.ownerNode === tag) {\n return ((sheet: any): CSSStyleSheet);\n }\n }\n\n throwStyledError(17);\n\n return (undefined: any);\n};\n\n/** @flow\n/* eslint-disable no-use-before-define *\n\nimport { makeStyleTag,\n getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/** Create a CSSStyleSheet-like tag\ndepending on the environment *\n\nexport const makeTag = ({ isServer, useCSSOMInjection, target }:\n SheetOptions): Tag => {\n if (isServer) {\n return new VirtualTag(target);\n }\n\n } else if (useCSSOMInjection) {\n return new CSSOMTag(target);\n } else {\n return new TextTag(target);\n }\n\n };\n\nexport class CSSOMTag implements Tag {\n element: HTMLStyleElement;\n\n sheet:\n CSSStyleSheet;\n\n length: number;\n\n constructor(target?: HTMLInputElement) {\n const element = (this.element =\n makeStyleTag(target));\n\n // Avoid Edge bug where empty style elements don't create sheets\n\n element.appendChild(document.createTextNode("));\n\n this.sheet = getSheet(element);\n\n this.length = 0;\n\n }\n\n insertRule(index: number, rule: string): boolean {\n try {\n this.sheet.insertRule(rule, index);\n\n this.length++;\n\n return true;\n } catch (_error) {\n return false;\n }\n }\n\n deleteRule(index: number):\n void {\n this.sheet.deleteRule(index);\n\n this.length--;\n }\n\n getRule(index: number): string {\n const rule =\n this.sheet.cssRules[index];\n\n // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n

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    if (rule !== undefined && typeof rule.cssText === 'string') {\n    return rule.cssText;\n  } else {\n    return ";\n  }\n }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes */\nexport class TextTag implements Tag {\n  element: HTMLStyleElement;\n\n  nodes: NodeList<Node>;\n\n  length: number;\n\n  constructor(target?: HTMLElement) {\n    const element = (this.element = makeStyleTag(target));\n    this.nodes = element.childNodes;\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode = this.nodes[index];\n      this.element.insertBefore(node, refNode || null);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n\n  deleteRule(index: number): void {\n    this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    if (index < this.length) {\n      return this.nodes[index].textContent;\n    } else {\n      return ";\n    }\n  }\n}\n\n/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */\nexport class VirtualTag implements Tag {\n  rules: string[];\n\n  length: number;\n\n  constructor(_target?: HTMLElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length) {\n      this.rules.splice(index, 0, rule);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n\n  deleteRule(index: number): void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    if (index < this.length) {\n      return this.rules[index];\n    } else {\n      return ";\n    }\n  }\n}\n\n"/\n@flow\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport { EMPTY_OBJECT } from './utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport { getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet } from './Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from './types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\ntype SheetConstructorArgs = {\n  isServer?: boolean,\n  useCSSOMInjection?: boolean,\n  target?: HTMLElement,\n};\n\ntype GlobalStylesAllocationMap = {\n  [key: string]: number\n};\n\ntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions: SheetOptions = {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains the main stylesheet logic for stringification and caching */\nexport default class StyleSheet implements Sheet {\n  gs: GlobalStylesAllocationMap;\n\n  names: NamesAllocationMap;\n\n  options: SheetOptions;\n\n  server: boolean;\n\n  tag: void | GroupedTag;\n\n  /** Register a group ID to give it an index */\n  static registerId(id: string): number {\n    return getGroupForId(id);\n  }\n\n  constructor(\n    options: SheetConstructorArgs = EMPTY_OBJECT,\n    globalStyles?: GlobalStylesAllocationMap = {},\n    names?: NamesAllocationMap\n  ) {\n    this.options = {\n      ...defaultOptions,\n      ...options,\n    };\n    this.gs = globalStyles;\n    this.names = new Map(names);\n    this.server = !options.isServer;\n\n    // We rehydrate only once and use the sheet that is created first\n    if (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n      SHOULD_REHYDRATE = false;\n      rehydrateSheet(this);\n    }\n\n    reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean = true) {\n      return new StyleSheet(\n        { ...this.options, ...options },\n        this.gs,\n        (withNames && this.names) || undefined\n      );\n    }\n\n    allocateGSInstance(id: string) {\n      return (this.gs[id] = (this.gs[id] || 0) + 1);\n    }\n\n    /** Lazily initialises a GroupedTag for when it's actually needed */\n    getTag(): GroupedTag {\n      return this.tag || (this.tag = makeGroupedTag(makeTag(this.options)));\n    }\n\n    /** Check whether a name is known for caching */\n    hasNameForId(id: string, name: string): boolean {\n      return this.names.has(id) && (this.names.get(id): any).has(name);\n    }\n\n    /** Mark a group's name as known for caching */\n    registerName(id: string, name: string) {\n      getGroupForId(id);\n      if (!this.names.has(id)) {\n        const groupNames = new Set();\n        groupNames.add(name);\n        this.names.set(id, groupNames);\n      } else {\n        (this.names.get(id): any).add(name);\n      }\n    }\n\n    /** Insert new rules which also marks the name as known */\n    insertRules(id: string, name: string, rules: string[]) {\n      this.registerName(id, name);\n      this.getTag().insertRules(getGroupForId(id), rules);\n    }\n\n    /** Clears all cached names for a given group ID */\n    clearNames(id: string) {\n      if (this.names.has(id)) {\n        (this.names.get(id): any).clear();\n      }\n    }\n\n    /** Clears all rules for a given group ID */\n    clearRules(id: string) {\n      this.getTag().clearGroup(getGroupForId(id));\n    }\n\n    clearNames(id);\n  }\n\n  /** Clears the entire tag which deletes all rules but not its names */\n  clearTag() {\n

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// NOTE: This does not clear the names, since it's only used during SSR // so that we can continuously output
only new rules\n  this.tag = undefined;\n }\n\n /** Outputs the current sheet as a CSS string with markers for SSR
*\n toString(): string {\n  return outputSheet(this);\n }\n}\n\n"/**\n * MIT License\n *\n * Copyright (c) 2016
Sultan Tarimo\n *\n * Permission is hereby granted, free of charge, to any person obtaining a copy of\n * this
software and associated documentation files (the \"Software\"),\n * to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n * sell
copies of the Software and to permit persons to whom the Software is furnished
to do so, subject to the following conditions:\n *\n * The above copyright notice and this permission notice shall be
included in all\n * copies or substantial portions of the Software.\n *\n * THE SOFTWARE IS PROVIDED \"AS
IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n * OR IMPLIED INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE\n * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,\n * WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR\n * IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.\n */\n\n/* eslint-disable *\n\nexport default
function(insertRule) {\n  const delimiter = '/**/';\n  const needle = `${delimiter}`;\n\n  function toSheet(block) {\n
if (block) {\n  try {\n    insertRule(`${block}`);\n  } catch (e) {\n    }\n  }\n\n  return function ruleSheet(\n
context,\n  content,\n
selectors,\n  parents,\n  line,\n  column,\n  length,\n  ns,\n  depth,\n  at\n ) {\n  switch (context) {\n  //
property\n  case 1:\n    // @import\n    if (depth === 0 && content.charCodeAt(0) === 64) return
insertRule(`${content};`), "\n    break;\n  // selector\n  case 2:\n    if (ns === 0) return content +
delimiter;\n    break;\n  // at-rule\n  case 3:\n    switch (ns) {\n    // @font-face, @page\n    case
102:\n    case 112:\n      return insertRule(selectors[0] + content), "\n    default:\n      return content +
(at === 0 ? delimiter : ");\n    }\n  case -2:\n    content.split(needle).forEach(toSheet);\n  }\n
};\n}\n\n", "import Stylis from '@emotion/stylis';\nimport { type Stringifier } from '../types';\nimport {
EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwError from './error';\nimport { phash,
SEED } from './hash';\nimport insertRulePlugin
from './stylisPluginInsertRule';\n\nconst COMMENT_REGEX = /^\\s*\\/\\/\\s*.*$/gm;\n\nconst
COMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\nconst type StylisInstanceConstructorArgs = {\n  options?:
Object,\n  plugins?: Array<Function>,\n};\n\nexport default function createStylisInstance({\n  options =
EMPTY_OBJECT,\n  plugins = EMPTY_ARRAY,\n}: StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n
const stylis = new Stylis(options);\n\n  // Wrap `insertRulePlugin` to build a list of rules, // and then make our own
plugin to return the rules. This // makes it easier to hook into the existing SSR architecture\n\n  let parsingRules =
[];\n\n  // eslint-disable-next-line consistent-return\n  const returnRulesPlugin = context => {\n  if (context === -2)
{\n  const parsedRules = parsingRules;\n  parsingRules = [];\n  return parsedRules;\n  }\n};\n\n  const
parseRulesPlugin = insertRulePlugin(rule => {\n  parsingRules.push(rule);\n});\n\n  let _componentId: string;\n
let _selector:
string;\n  let _selectorRegExp: RegExp;\n  let _consecutiveSelfRefRegExp: RegExp;\n\n  const
selfReferenceReplacer = (match, offset, string) => {\n  if (\n  // do not replace the first occurrence if it is
complex (has a modifier)\n  (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])
=== -1 : true) &&\n  // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n
!string.match(_consecutiveSelfRefRegExp)\n  ) {\n  return `.${_componentId}`;\n  }\n\n  return match;\n
};\n\n  /**\n   * When writing a style like\n   *\n   * & + & {\n   *   color: red;\n   * }\n   *\n   * The second
ampersand should be a reference to the static component class. stylis\n   * has no knowledge of static class so we
have to intelligently replace the base selector.\n   *\n   * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <-
more info about the context phase values\n   * \"2\" means this plugin is taking effect
at the very end after all other processing is complete\n   */\n  const selfReferenceReplacementPlugin = (context, _,
selectors) => {\n  if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n  //

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eslint-disable-next-line no-param-reassign\n    selectors[0] = selectors[0].replace(_selectorRegex,
selfReferenceReplacer);\n  }\n  };\n\n  stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin,
returnRulesPlugin]);\n\n  function stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n    const
flatCSS = css.replace(COMMENT_REGEX, "");\n    const cssStr = selector && prefix ? `${prefix} ${selector} {
${flatCSS} }` : flatCSS;\n\n    // stylis has no concept of state to be passed to plugins\n    // but since JS is single-
threaded, we can rely on that to ensure\n    // these properties stay in sync with the current stylis run\n
_componentId = componentId;\n    _selector = selector;\n    _selectorRegex = new RegExp(`\\\\\\$${_selector}\\\\\\$`,
'g');\n    _consecutiveSelfRefRegExp = new RegExp(`\\\\\\$${_selector}\\\\\\$`{2,});\n\n    return stylis(prefix ||
!selector ? " : selector, cssStr);\n  }\n\n  stringifyRules.hash = plugins.length\n    ? plugins\n      .reduce((acc,
plugin) => {\n        if (!plugin.name) {\n          throwStyledError(15);\n        }\n        return phash(acc,
plugin.name);\n      }, SEED)\n    .toString()\n    : "";\n\n  return stringifyRules;\n}\n\n", /* @flow\nimport React, {
type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\nimport shallowequal from
'shallowequal';\nimport StyleSheet from './sheet';\nimport type { Stringifier } from './types';\nimport
createStylisInstance from './utils/stylis';\n\ntype Props = {\n  children?: Node,\n  disableCSSOMInjection?:
boolean,\n  disableVendorPrefixes?: boolean,\n  sheet?: StyleSheet,\n  stylisPlugins?: Array<Function>,\n  target?:
HTML<Element>,\n};\n\nexport const StyleSheetContext: Context<StyleSheet
| void> = React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const
StylisContext: Context<Stringifier | void> = React.createContext();\nexport const StylisConsumer =
StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:
Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n  return
useContext(StyleSheetContext) || masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n  return
useContext(StylisContext) || masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n  const
[plugins, setPlugins] = useState(props.stylisPlugins);\n  const contextStyleSheet = useStyleSheet();\n\n  const
styleSheet = useMemo(() => {\n    let sheet = contextStyleSheet;\n\n    if (props.sheet) {\n      // eslint-disable-next-
line prefer-destructuring\n      sheet = props.sheet;\n    } else if (props.target) {\n      sheet =
sheet.reconstructWithOptions({\n        target: props.target }, false);\n    }\n\n    if (props.disableCSSOMInjection) {\n      sheet =
sheet.reconstructWithOptions({ useCSSOMInjection: false });\n    }\n\n    return sheet;\n  },
[props.disableCSSOMInjection, props.sheet, props.target]);\n\n  const stylis = useMemo(\n    () =>\n      createStylisInstance({\n        options: { prefix: !props.disableVendorPrefixes },\n        plugins,\n      }),\n    [props.disableVendorPrefixes, plugins]\n  );\n\n  useEffect(() => {\n    if (!shallowequal(plugins,
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n  }, [props.stylisPlugins]);\n\n  return (\n
<StyleSheetContext.Provider value={styleSheet}>\n    <StylisContext.Provider value={stylis}>\n      {\n
process.env.NODE_ENV !== 'production'\n        ? React.Children.only(props.children)\n        : props.children\n      }\n
</StylisContext.Provider>\n    </StyleSheetContext.Provider>\n  );\n}\n\n", /* @flow\nimport StyleSheet from
'./sheet';\nimport { type
Stringifier } from './types';\nimport throwStyledError from './utils/error';\nimport { masterStylis } from
'./StyleSheetManager';\n\nexport default class Keyframes {\n  id: string;\n\n  name: string;\n\n  rules: string;\n\n
constructor(name: string, rules: string) {\n  this.name = name;\n  this.id = `sc-keyframes-${name}`;\n  this.rules
= rules;\n  }\n\n  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n    const
resolvedName = this.name + stylisInstance.hash;\n\n    if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n
styleSheet.insertRules(\n      this.id,\n      resolvedName,\n      stylisInstance(this.rules, resolvedName,
'@keyframes')\n    );\n  }\n\n  toString = () => {\n    return throwStyledError(12, String(this.name));\n  }\n\n
getName(stylisInstance: Stringifier = masterStylis) {\n    return this.name + stylisInstance.hash;\n  }\n}\n\n", /*
@flow\n\n/**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n
*/\n\nconst uppercaseCheck = /([A-Z])/;\nconst uppercasePattern = /([A-Z])/g;\nconst msPattern = /^ms-/;\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase}`;\n\n/**\n * Hyphenates a camelcased

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CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `ms-`.\n * @param {string} string\n *
@return {string}\n * ^\nexport default function hyphenateStyleName(string: string): string {\n return
uppercaseCheck.test(string)\n ? string\n .replace(uppercasePattern, prefixAndLowerCase)\n .replace(msPattern,
'-ms-')\n : string;\n }\n", "// @flow\nimport unitless from '@emotion/unitless';\n\n// Taken from
https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js\nexport default function addUnitIfNeeded(name: string, value: any): any {\n
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n // $FlowFixMe\n if (value == null ||
typeof value === 'boolean' || value === "") {\n return "";\n }\n\n if (typeof value === 'number' && value !== 0 &&
!(name in unitless) && !name.startsWith('--')) {\n return `${value}px`; // Presumes implicit 'px' suffix for unitless
numbers except for CSS variables\n }\n\n return String(value).trim();\n }\n", "// @flow\nimport { isElement } from
'react-is';\nimport getComponentName from './getComponentName';\nimport isFunction from './isFunction';\nimport
isStatelessFunction from './isStatelessFunction';\nimport isPlainObject from './isPlainObject';\nimport
isStyledComponent from './isStyledComponent';\nimport Keyframes from '../models/Keyframes';\nimport hyphenate
from './hyphenateStyleName';\nimport addUnitIfNeeded from './addUnitIfNeeded';\nimport { type Stringifier } from
'./types';\n\n/**\n * It's falsish not falsy because 0 is allowed.\n */\nconst isFalsish = chunk => chunk ===
undefined || chunk === null || chunk === false || chunk === "";\n\nexport const objToCssArray = (obj: Object,
prevKey?: string): Array<string | Function> => {\n const rules = [];\n\n for (const key in obj) {\n if
(!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;\n\n if ((Array.isArray(obj[key]) && obj[key].isCss) ||
isFunction(obj[key])) {\n rules.push(`${hyphenate(key)}:`, obj[key], `;`);\n } else if (isPlainObject(obj[key]))
{\n rules.push(...objToCssArray(obj[key], key));\n } else {\n rules.push(`${hyphenate(key)}:
${addUnitIfNeeded(key, obj[key]);}`);\n }\n }\n\n return prevKey ? [`${prevKey} {`, ...rules, `}`] :
rules;\n};\n\nexport default function flatten(n chunk: any, executionContext: ?Object, styleSheet:
?Object, stylisInstance: ?Stringifier): any {\n if (Array.isArray(chunk)) {\n const ruleSet = [];\n\n for (let i
= 0, len = chunk.length, result; i < len; i += 1) {\n result = flatten(chunk[i], executionContext, styleSheet,
stylisInstance);\n\n if (result === "") continue;\n else if (Array.isArray(result)) ruleSet.push(...result);\n else
ruleSet.push(result);\n }\n\n return ruleSet;\n }\n\n if (isFalsish(chunk)) {\n return "";\n }\n\n /* Handle other
components */\n if (isStyledComponent(chunk)) {\n return `.${chunk.styledComponentId}`;\n }\n\n /* Either
execute or defer the function */\n if (isFunction(chunk)) {\n if (isStatelessFunction(chunk) && executionContext)
{\n const result = chunk(executionContext);\n\n if (process.env.NODE_ENV !== 'production' &&
isElement(result)) {\n // eslint-disable-next-line no-console\n console.warn(\n
`${getComponentName(\n chunk\n )} is not
a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components for more details.\n\n );\n }\n\n return
flatten(result, executionContext, styleSheet, stylisInstance);\n } else return chunk;\n }\n\n if (chunk instanceof
Keyframes) {\n if (styleSheet) {\n chunk.inject(styleSheet, stylisInstance);\n return
chunk.getName(stylisInstance);\n } else return chunk;\n }\n\n /* Handle objects */\n return isPlainObject(chunk)
? objToCssArray(chunk) : chunk.toString();\n }\n", "// @flow\nconst printed = {};\n\nexport default function
warnOnce(message) {\n if (printed[message]) return;\n printed[message] = true;\n\n if (typeof console !==
'undefined' && console.warn) console.warn(message);\n }\n", "// @flow\nconst SINGLE_QUOTE =
`'`.charCodeAt(0);\nconst DOUBLE_QUOTE = `\"`.charCodeAt(0);\nconst BACKSLASH =
`\\`.charCodeAt(0);\nconst SLASH = `/`.charCodeAt(0);\nconst NEWLINE
= `\\n`.charCodeAt(0);\nconst SPACE = ` `.charCodeAt(0);\nconst FEED = `\\f`.charCodeAt(0);\nconst TAB =
`\\t`.charCodeAt(0);\nconst CR = `\\r`.charCodeAt(0);\nconst OPEN_SQUARE = `[`.charCodeAt(0);\nconst
CLOSE_SQUARE = `]`.charCodeAt(0);\nconst OPEN_PARENTHESES = `(`.charCodeAt(0);\nconst
CLOSE_PARENTHESES = `)`.charCodeAt(0);\nconst OPEN_CURLY = `{`.charCodeAt(0);\nconst

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CLOSE_CURLY = '}'.charCodeAt(0);\nconst SEMICOLON = ';'.charCodeAt(0);\nconst ASTERISK =
'*'.charCodeAt(0);\nconst COLON = ':'.charCodeAt(0);\nconst AT = '@'.charCodeAt(0);\n\nconst RE_AT_END = /[\n\\t\\r\\f\\{\\(\\)\\'\\\"\\/\\[\\]#]/g;\nconst RE_WORD_END = /[\n\\t\\r\\f\\(\\)\\{\\}\\:;@!\\'\\\"\\[\\]#]\\/(?=[*])/g;\nconst
RE_BAD_BRACKET = /.[\\\"\\'\\(\\)\\[\\]#\\;\\n];\n\nexport default function tokenize(input, options = {}) {\n  const tokens
= [];\n  const css = input.css.valueOf();\n  const ignore = options.ignoreErrors;\n  let code,\n  next,\n  quote,\n  lines,\n  last,\n  content,\n  escape,\n  nextLine,\n  nextOffset,\n  escaped,\n  escapePos,\n  prev,\n  n;\n  const length = css.length;\n  let offset =
-1;\n  let line = 1;\n  let pos = 0;\n  function unclosed(what) {\n    throw input.error(`Unclosed ${what}`, line, pos -
offset);\n  }\n  while (pos < length) {\n    code = css.charCodeAt(pos);\n    if (code === NEWLINE || code ===
FEED || (code === CR && css.charCodeAt(pos + 1) !== NEWLINE)) {\n      offset = pos;\n      line += 1;\n    }\n    switch (code) {\n      case NEWLINE:\n      case SPACE:\n      case TAB:\n      case CR:\n      case FEED:\n        next = pos;\n        do {\n          next += 1;\n          code = css.charCodeAt(next);\n          if (code === NEWLINE) {\n            offset = next;\n            line += 1;\n          }\n        } while ((code === SPACE ||\n        code === NEWLINE ||\n        code === TAB ||\n        code === CR ||\n        code === FEED);\n      tokens.push(['space', css.slice(pos,\n      next]));\n      pos = next - 1;\n      break;\n      case OPEN_SQUARE:\n        tokens.push(['[', '[', line, pos -
offset]);\n        break;\n      case CLOSE_SQUARE:\n        tokens.push([']', ']', line, pos - offset]);\n        break;\n      case OPEN_CURLY:\n        tokens.push(['{', '{', line, pos - offset]);\n        break;\n      case CLOSE_CURLY:\n        tokens.push(['}', '}', line, pos - offset]);\n        break;\n      case COLON:\n        tokens.push([':', ':', line, pos -
offset]);\n        break;\n      case SEMICOLON:\n        tokens.push([';', ';', line, pos - offset]);\n        break;\n      case OPEN_PARENTHESES:\n        prev = tokens.length ? tokens[tokens.length - 1][1] : '';\n        n =
css.charCodeAt(pos + 1);\n        if ((prev === 'url' && n !== SINGLE_QUOTE && n !==
DOUBLE_QUOTE && n !== SPACE && n !== NEWLINE && n !== TAB && n
!== FEED && n !== CR)\n        ) {\n          next = pos;\n          do {\n            escaped = false;\n            next = css.indexOf(')', next + 1);\n            if (next === -1) {\n              if (ignore) {\n                next = pos;\n                break;\n              } else {\n                unclosed('bracket');\n              }\n            }\n            escapePos = next;\n            while (css.charCodeAt(escapePos - 1)
=== BACKSLASH) {\n              escapePos -= 1;\n              escaped = !escaped;\n            }\n            while
(escaped);\n            tokens.push([\n              'brackets',\n              css.slice(pos, next + 1),\n              line,\n              pos -
offset,\n              line,\n              next - offset,\n            ]);\n            pos = next;\n          } else {\n            next = css.indexOf(')',\n            pos + 1);\n            content = css.slice(pos, next + 1);\n            if (next === -1 || RE_BAD_BRACKET.test(content))\n            {\n              tokens.push(['(', '(', line, pos - offset]);\n              } else {\n                tokens.push(['brackets', content, line, pos - offset, line, next -
offset]);\n                pos = next;\n              }\n            }\n            break;\n            case CLOSE_PARENTHESES:\n              tokens.push([')', ')', line, pos - offset]);\n              break;\n            case SINGLE_QUOTE:\n            case DOUBLE_QUOTE:\n              quote = code === SINGLE_QUOTE ?
'\'' : '\"';\n              next = pos;\n              do {\n                escaped = false;\n                next = css.indexOf(quote, next + 1);\n                if
(next === -1) {\n                  if (ignore) {\n                    next = pos + 1;\n                    break;\n                  } else {\n                    unclosed('quote');\n                  }\n                }\n                escapePos = next;\n                while (css.charCodeAt(escapePos - 1)
=== BACKSLASH) {\n                  escapePos -= 1;\n                  escaped = !escaped;\n                }\n                while (escaped);\n                content = css.slice(pos, next + 1);\n                lines = content.split('\\n');\n                last = lines.length
- 1;\n                if (last > 0) {\n                  nextLine = line + last;\n                  nextOffset = next - lines[last].length;\n                } else\n                {\n                  nextLine = line;\n                  nextOffset = offset;\n                }\n                tokens.push([\n                  'string',\n                  css.slice(pos, next + 1),\n                  line,\n                  pos - offset,\n                  nextLine,\n                  next - nextOffset,\n                ]);\n                offset = nextOffset;\n                line = nextLine;\n                pos = next;\n                break;\n            case AT:\n              RE_AT_END.lastIndex = pos + 1;\n              RE_AT_END.test(css);\n              if (RE_AT_END.lastIndex === 0) {\n                next = css.length - 1;\n                } else {\n                  next = RE_AT_END.lastIndex - 2;\n                }\n              tokens.push(['at-word',\n              css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n              pos = next;\n              break;\n            case
BACKSLASH:\n              next = pos;\n              escape = true;\n              while (css.charCodeAt(next + 1) === BACKSLASH)

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{\n
  next += 1;\n  escape = !escape;\n  }\n  code = css.charCodeAt(next + 1);\n  if (\n  escape
&&\n  (code !== SLASH &&\n  code !== SPACE &&\n  code !== NEWLINE &&\n  code
!== TAB &&\n  code !== CR &&\n  code !== FEED)\n  ) {\n  next += 1;\n  }\n
tokens.push(['word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n  pos = next;\n
break;\n  default:\n  if (code === SLASH && css.charCodeAt(pos + 1) === ASTERISK) {\n  next =
css.indexOf('/', pos + 2) + 1;\n  if (next === 0) {\n  if (ignore) {\n  next = css.length;\n  }
else {\n  unclosed('comment');\n  }\n  }\n  content = css.slice(pos, next + 1);\n  lines =
content.split("\n");\n  last = lines.length - 1;\n  if (last > 0) {\n  nextLine = line + last;\n
  nextOffset = next - lines[last].length;\n  } else {\n  nextLine = line;\n  nextOffset = offset;\n
  }\n  tokens.push(['comment', content, line, pos - offset, nextLine, next - nextOffset]);\n  offset =
nextOffset;\n  line = nextLine;\n  pos = next;\n  } else {\n  RE_WORD_END.lastIndex = pos +
1;\n  RE_WORD_END.test(css);\n  if (RE_WORD_END.lastIndex === 0) {\n  next = css.length -
1;\n  } else {\n  next = RE_WORD_END.lastIndex - 2;\n  }\n  tokens.push(['word',
css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n  pos = next;\n  }\n  break;\n  }\n
pos++;\n  }\n  return tokens;\n  }" ,"/ @flow\nimport tokenize from './tokenize';\nimport Input from
'./input';\nconst HIGHLIGHT_THEME = {\n  brackets: [36, 39], // cyan\n  string: [31, 39], // red\n  'at-word': [31,
39], // red\n
  comment: [90, 39], // gray\n  ':': [32, 39], // green\n  '}': [32, 39], // green\n  ' ': [1, 22], // bold\n  ' ': [1, 22], // bold\n
':': [1, 22], // bold\n  ' ': [1, 22], // bold\n};\nfunction code(color) {\n  return `\\u001b[${color}m`;\n  }\nfunction
terminalHighlight(css) {\n  const tokens = tokenize(new Input(css), { ignoreErrors: true });\n  const result = [];\n
tokens.forEach(token => {\n  const color = HIGHLIGHT_THEME[token[0]];\n  if (color) {\n  result.push(\n
token[1]\n  .split(/\\r?\\n/)\n  .map(i => code(color[0]) + i + code(color[1]))\n  .join("\\n")\n  );\n
} else {\n  result.push(token[1]);\n  }\n  });\n  return result.join("");\n  }\n\nexport default terminalHighlight;\n", "/@
flow\nimport supportsColor from 'supports-color';\nimport terminalHighlight from './terminal-
highlight';\nimport warnOnce from './warn-once';\n\n/**\n * The CSS parser throws this error for broken CSS.\n *\n * Custom parsers can throw this error
for broken custom syntax using\n * the {@link Node#error} method.\n *\n * PostCSS will use the input source map
to detect the original error location.\n *\n * If you wrote a Sass file, compiled it to CSS and then parsed it with
PostCSS,\n *\n * PostCSS will show the original position in the Sass file.\n *\n * If you need the position in the
PostCSS input\n * (e.g., to debug the previous compiler), use `error.input.file`.\n *\n * @example\n * // Catching
and checking syntax error\n * try {\n *   postcss.parse('a{')\n * } catch (error) {\n *   if ( error.name ===
'CssSyntaxError' ) {\n *     error //=> CssSyntaxError\n *   }\n * }\n *\n * @example\n * // Raising error from
plugin\n * throw node.error('Unknown variable', { plugin: 'postcss-vars' });\n *\n * ^\n * class CssSyntaxError {\n * /**\n *
@param {string} message - error message\n * @param {number} [line] - source line of the error\n * @param
{number} [column] - source column of the error\n * @param {string} [source] - source code
of the broken file\n * @param {string} [file] - absolute path to the broken file\n * @param {string} [plugin] -
PostCSS plugin name, if error came from plugin\n * /\n * constructor(message, line, column, source, file, plugin) {\n
* /**\n * @member {string} - Always equal to `CssSyntaxError`. You should\n * always check
error type\n * by `error.name === 'CssSyntaxError` instead of\n * `error instanceof
CssSyntaxError`, because\n * npm could have several PostCSS versions.\n *\n * @example\n * if ( error.name === 'CssSyntaxError' ) {\n *   error //=> CssSyntaxError\n * }\n * /\n * this.name =
'CssSyntaxError';\n * /**\n * @member {string} - Error message.\n *\n * @example\n * error.message
//=> 'Unclosed block'\n * /\n * this.reason = message;\n\n * if (file) {\n * /**\n * @member {string} -
Absolute path to the broken file.\n *\n * @example\n * error.file //=> 'a.sass'\n * error.input.file //=> 'a.css'\n * /\n * this.file =
file;\n * }\n * if (source) {\n * /**\n * @member {string} - Source code of the broken file.\n *\n * @example\n * error.source //=> 'a { b { } }'\n * error.input.column //=> 'a b { }'\n * /\n * this.source

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= source;\n } \n if (plugin) {\n /**\n * @member {string} - Plugin name, if error came from plugin.\n *\n * @example\n * error.plugin //=> 'postcss-vars'\n *\n this.plugin = plugin;\n } \n if (typeof\nline !== 'undefined' && typeof column !== 'undefined') {\n /**\n * @member {number} - Source line of the\nerror.\n *\n * @example\n * error.line //=> 2\n * error.input.line //=> 4\n *\n this.line =\nline;\n /**\n * @member {number} - Source column of the error.\n *\n * @example\n *\n * error.column //=> 1\n * error.input.column //=> 4\n *\n this.column = column;\n } \n\nthis.setMessage();\n\n if (Error.captureStackTrace) {\n Error.captureStackTrace(this, CssSyntaxError);\n } \n\n setMessage() {\n /**\n * @member {string} - Full error text in the GNU error format\n *\n with plugin, file, line and column.\n *\n * @example\n * error.message //=> 'a.css:1:1: Unclosed block'\n *\n this.message = this.plugin ? `${this.plugin}: ` : ` `;\n this.message += this.file ? this.file : '<css input>';\n if\n(typeof this.line !== 'undefined') {\n this.message += `:${this.line}:${this.column}`;\n } \n\n this.message += `:\n${this.reason}`;\n } \n\n /**\n * Returns a few lines of CSS source that caused the error.\n *\n * If the CSS has\nan input source map without `sourceContent`,\n * this method will return an empty string.\n *\n * @param\n{boolean} [color] whether arrow\nwill be colored red by terminal\n *\n color codes. By default, PostCSS will detect\n *\n color support by `process.stdout.isTTY`\n *\n and `process.env.NODE_DISABLE_COLORS`.\n *\n *\n * @example\n * error.showSourceCode() //=> ` 4 | ` \n *\n // 5 | a { \n *\n //\n> 6 | bad \n *\n // | ^ \n *\n // 7 | ` \n *\n // 8 | b { \n *\n *\n @return {string} few lines of CSS source that caused the error\n *\n showSourceCode(color) {\n if\n(!this.source) return ` `;\n\n let css = this.source;\n if (typeof color === 'undefined') color = supportsColor;\n if\n(color) css = terminalHighlight(css);\n\n const lines = css.split(/\\r?/);\n const start = Math.max(this.line - 3,\n0);\n const end = Math.min(this.line + 2, lines.length);\n\n const maxWidth = String(end).length;\n\n return lines\n .slice(start, end)\n .map((line, index) => {\n const number = start + 1 + index;\n const\npadded = `${number}`.slice(-maxWidth);\n const gutter = `${padded} | `;\n if (number === this.line) {\n const spacing =\n gutter.replace(/\\d/g, ' ') + line.slice(0, this.column - 1).replace(/^[\\t]/g, ');\n\n return `>${gutter}${line}\\n ${spacing}^`;\n } else {\n return `${gutter}${line}`;\n } \n\n } \n\n )\n.join('\\n');\n } \n\n /**\n * Returns error position, message and source code of the broken part.\n *\n *\n @example\n * error.toString() //=> `CssSyntaxError: app.css:1:1: Unclosed block\n *\n // > 1 | a { \n *\n // | ^ \n *\n * @return {string} error position, message and source code\n *\n toString() {\n let code = this.showSourceCode();\n if (code) {\n code = `\\n\\n${code}\\n`;\n } \n\n return `${this.name}: ${this.message}${code}`;\n } \n\n get generated() {\n warnOnce('CssSyntaxError#generated is deprecated. Use input instead.);\n return this.input;\n } \n\n /**\n * @memberof CssSyntaxError#\n * @member {Input} input - Input object with PostCSS internal information\n *\n about input file. If input has source map\n *\n from previous tool, PostCSS will use\norigin\n *\n (for example, Sass) source. You can use this\n *\n object to get PostCSS\ninput source.\n *\n * @example\n * error.input.file //=> 'a.css'\n * error.file //=> 'a.sass'\n *\n } \n\n\nexport\ndefault CssSyntaxError; \n\n", // @flow\n/* eslint-disable valid-jsdoc *\n\nconst defaultRaw = {\n colon: ':',\n indent: ' ',\n beforeDecl: '\\n',\n beforeRule: '\\n',\n beforeOpen: ' ',\n beforeClose: '\\n',\n beforeComment:\n '\\n',\n after: '\\n',\n emptyBody: ',\n commentLeft: ' ',\n\n commentRight: ' ',\n};\n\nfunction capitalize(str) {\n return str[0].toUpperCase() + str.slice(1);\n}\n\n\nclass\nStringifier {\n constructor(builder) {\n this.builder = builder;\n } \n\n stringify(node, semicolon) {\n this[node.type](node, semicolon);\n } \n\n root(node) {\n this.body(node);\n if (node.raws.after)\nthis.builder(node.raws.after);\n } \n\n comment(node) {\n const left = this.raw(node, 'left', 'commentLeft');\n const right = this.raw(node, 'right', 'commentRight');\n this.builder(`${left}${node.text}${right}`, node);\n } \n\n decl(node, semicolon) {\n const between = this.raw(node, 'between', 'colon');\n let string = node.prop +\nbetween + this.rawValue(node, 'value');\n\n if (node.important) {\n string += node.raws.important ||\n'important';\n } \n\n if (semicolon) string += `;`\n this.builder(string, node);\n } \n\n rule(node) {\n this.block(node, this.rawValue(node, 'selector'));\n } \n\n atrule(node, semicolon)

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{\n let name = `@${node.name}`;\n const params = node.params ? this.rawValue(node, 'params') : '';\n\n if
(typeof node.raws.afterName !== 'undefined') {\n name += node.raws.afterName;\n } else if (params) {\n
name += ' ';\n }\n\n if (node.nodes) {\n this.block(node, name + params);\n } else {\n const end =
(node.raws.between || '') + (semicolon ? ';' : '');\n this.builder(name + params + end, node);\n }\n }\n\n
body(node) {\n let last = node.nodes.length - 1;\n while (last > 0) {\n if (node.nodes[last].type !== 'comment')
break;\n last -= 1;\n }\n\n const semicolon = this.raw(node, 'semicolon');\n for (let i = 0; i <
node.nodes.length; i++) {\n const child = node.nodes[i];\n const before = this.raw(child, 'before');\n if
(before) this.builder(before);\n this.stringify(child, last !== i || semicolon);\n }\n }\n\n block(node, start) {\n
const between = this.raw(node, 'between', 'beforeOpen');\n\n this.builder(`${start + between}`, node, 'start');\n\n let after;\n if (node.nodes && node.nodes.length) {\n
this.body(node);\n after = this.raw(node, 'after');\n } else {\n after = this.raw(node, 'after', 'emptyBody');\n
}\n\n if (after) this.builder(after);\n this.builder('}', node, 'end');\n }\n\n raw(node, own, detect) {\n let value;\n
if (!detect) detect = own;\n\n // Already had\n if (own) {\n value = node.raws[own];\n if (typeof value
!== 'undefined') return value;\n }\n\n const parent = node.parent;\n\n // Hack for first rule in CSS\n if (detect
=== 'before') {\n if (!parent || (parent.type === 'root' && parent.first === node)) {\n return '';\n }\n }\n\n
// Floating child without parent\n if (!parent) return defaultRaw[detect];\n\n // Detect style by other nodes\n
const root = node.root();\n if (!root.rawCache) root.rawCache = {};\n if (typeof root.rawCache[detect]
!== 'undefined') {\n return root.rawCache[detect];\n }\n\n if (detect === 'before' || detect === 'after') {\n
return this.beforeAfter(node, detect);\n } else {\n const method = `raw${capitalize(detect)}`;\n if
(this[method]) {\n value = this[method](root, node);\n } else {\n root.walk(i => {\n value =
i.raws[own];\n if (typeof value !== 'undefined') return false;\n });\n }\n }\n\n if (typeof value ===
'undefined') value = defaultRaw[detect];\n\n root.rawCache[detect] = value;\n return value;\n }\n\n
rawSemicolon(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length && i.last.type ===
'decl') {\n value = i.raws.semicolon;\n if (typeof value !== 'undefined') return false;\n }\n });\n return
value;\n }\n\n rawEmptyBody(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length === 0)
{\n value = i.raws.after;\n\n if (typeof value !== 'undefined') return false;\n }\n });\n return value;\n }\n\n
rawIndent(root) {\n if
(root.raws.indent) return root.raws.indent;\n let value;\n root.walk(i => {\n const p = i.parent;\n if (p && p
!== root && p.parent && p.parent === root) {\n if (typeof i.raws.before !== 'undefined') {\n const parts =
i.raws.before.split("\\n");\n value = parts[parts.length - 1];\n value = value.replace(/^[^s]/g, '');\n
return false;\n }\n }\n });\n return value;\n }\n\n rawBeforeComment(root, node) {\n let value;\n
root.walkComments(i => {\n if (typeof i.raws.before !== 'undefined') {\n value = i.raws.before;\n if
(value.indexOf("\\n") !== -1) {\n value = value.replace(/^[^\\n]+$/, '');\n }\n return false;\n }\n });\n
if (typeof value === 'undefined') {\n value = this.raw(node, null, 'beforeDecl');\n }\n\n return value;\n }\n\n
rawBeforeDecl(root, node) {\n let value;\n root.walkDecls(i => {\n if (typeof
i.raws.before !== 'undefined') {\n value = i.raws.before;\n if (value.indexOf("\\n") !== -1) {\n value =
value.replace(/^[^\\n]+$/, '');\n }\n return false;\n }\n });\n if (typeof value === 'undefined') {\n
value = this.raw(node, null, 'beforeRule');\n }\n return value;\n }\n\n rawBeforeRule(root) {\n let value;\n
root.walk(i => {\n if (i.nodes && (i.parent !== root || root.first !== i)) {\n if (typeof i.raws.before !==
'undefined') {\n value = i.raws.before;\n if (value.indexOf("\\n") !== -1) {\n value =
value.replace(/^[^\\n]+$/, '');\n }\n return false;\n }\n }\n });\n return value;\n }\n\n
rawBeforeClose(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length > 0) {\n if (typeof
i.raws.after !==
'undefined') {\n value = i.raws.after;\n if (value.indexOf("\\n") !== -1) {\n value =
value.replace(/^[^\\n]+$/, '');\n }\n return false;\n }\n }\n });\n return value;\n }\n\n
rawBeforeOpen(root) {\n let value;\n root.walk(i => {\n if (i.type !== 'decl') {\n value =
i.raws.between;\n if (typeof value !== 'undefined') return false;\n }\n });\n return value;\n }\n\n
rawColon(root) {\n let value;\n root.walkDecls(i => {\n if (typeof i.raws.between !== 'undefined') {\n

```

```

value = i.raws.between.replace(/[\s:]/g, "");
return false;
}
return value;
}
beforeAfter(node, detect) {
let value;
if (node.type === 'decl') {
value = this.raw(node, null, 'beforeDecl');
} else if (node.type === 'comment') {
value = this.raw(node, null, 'beforeComment');
} else if (detect === 'before') {
value = this.raw(node, null, 'beforeRule');
} else {
value = this.raw(node, null, 'beforeClose');
}
let buf = node.parent;
let depth = 0;
while (buf && buf.type !== 'root') {
depth += 1;
buf = buf.parent;
}
if (value.indexOf("\n") !== -1) {
const indent = this.raw(node, null, 'indent');
if (indent.length) {
for (let step = 0; step < depth; step++) value += indent;
}
}
return value;
}
rawValue(node, prop) {
const value = node[prop];
const raw = node.raws[prop];
if (raw && raw.value === value) {
return raw.raw;
} else {
return value;
}
}
}
export default Stringifier;
"/ @flow
import Stringifier from './stringifier';
export default function stringify(node, builder) {
const str = new Stringifier(builder);
str.stringify(node);
}
"/ @flow
import CssSyntaxError from './css-syntax-error';
import Stringifier from './stringifier';
import warnOnce from './warn-once';
/**
 * @typedef {object} position
 * @property {number} line - source line in file
 * @property {number} column - source column in file
 */
/**
 * @typedef {object} source
 * @property {Input} input - {@link Input} with input file
 */
 * @property {position} start - The starting position of the node's source
 * @property {position} end - The ending position of the node's source
 */
const cloneNode = function(obj, parent) {
const cloned = new obj.constructor();
for (const i in obj) {
if (!obj.hasOwnProperty(i)) continue;
let value = obj[i];
const type = typeof value;
if (i === 'parent' && type === 'object') {
if (parent) cloned[i] = parent;
} else if (i === 'source') {
cloned[i] = value;
} else if (value instanceof Array) {
cloned[i] = value.map(j => cloneNode(j, cloned));
} else if (i !== 'before' && i !== 'after' && i !== 'between' && i !== 'semicolon') {
if (type === 'object' && value !== null) value = cloneNode(value);
cloned[i] = value;
}
}
return cloned;
};
/**
 * All node classes inherit the following common methods.
 */
 * @abstract
 */
class Node {
/**
 * @param {object} [defaults] - value for node properties
 */
constructor(defaults = {}) {
this.raws = {};
for (const name in defaults) {
this[name] = defaults[name];
}
}
/**
 * Returns a CssSyntaxError instance containing the original position of the node in the source, showing line and column numbers and also a small excerpt to facilitate debugging.
 * If present, an input source map will be used to get the original position of the source, even from a previous compilation step (e.g., from Sass compilation).
 * This method produces very useful error messages.
 * @param {string} message - error description
 * @param {object} [opts] - options
 * @param {string} opts.plugin - plugin name that created this error. PostCSS will set it automatically.
 * @param {string} opts.word - a word inside a node's string that should be highlighted as the source of the error
 * @param {number} opts.index - an index inside a node's string that should be highlighted as the source of the error
 * @return {CssSyntaxError} error object to throw it
 */
 * @example
 * if (!variables[name]) {
throw decl.error('Unknown variable ' + name, { word: name });
// CssSyntaxError: postcss-vars:a.sass:4:3: Unknown variable $black
// color: $black
// a
// ^
// background: white
}
error(message, opts = {}) {
if (this.source) {
const pos = this.positionBy(opts);
return this.source.input.error(message, pos.line, pos.column, opts);
} else {
return new CssSyntaxError(message);
}
}
/**
 * This method is provided as a convenience wrapper for {@link Result#warn}.
 * @param {Result} result - the {@link Result} instance
 * that will receive the warning
 * @param {string} text - warning message
 * @param {object} [opts] - options
 * @param {string} opts.plugin - plugin name that created this warning. PostCSS will set it automatically.
 * @param {string} opts.word - a word inside a node's string that should be highlighted as the source of the warning
 * @param {number} opts.index - an index inside a node's string that should be highlighted as the source of the warning
 * @return {Warning} created warning object
 */
 * @example
 * const plugin

```



```

this);\n return this;\n }\n\n /**\n * Returns the next child of the node's parent.\n * Returns `undefined` if the
current node is the last child.\n *\n * @return {Node|undefined} next node\n *\n * @example\n * if (
comment.text === 'delete next') {\n *   const next = comment.next();\n *   if ( next ) {\n *     next.remove();\n *
}\n * }\n *\n next() {\n   const index = this.parent.index(this);\n   return this.parent.nodes[index + 1];\n }\n\n
/**\n * Returns the previous child of the node's parent.\n * Returns `undefined` if the current node is the first
child.\n *\n * @return {Node|undefined} previous node\n *\n * @example\n * const annotation =
decl.prev();\n * if ( annotation.type === 'comment' ) {\n *   readAnnotation(annotation.text);\n
*\n * }\n *\n prev() {\n   const index = this.parent.index(this);\n   return this.parent.nodes[index - 1];\n }\n\n
toJSON() {\n   const fixed = {};\n\n   for (const name in this) {\n     if (!this.hasOwnProperty(name)) continue;\n
if (name === 'parent') continue;\n     const value = this[name];\n\n     if (value instanceof Array) {\n
fixed[name] = value.map(i => {\n       if (typeof i === 'object' && i.toJSON) {\n         return i.toJSON();\n
}\n     } else {\n       return i;\n     });\n   } else if (typeof value === 'object' && value.toJSON) {\n
fixed[name] = value.toJSON();\n   } else {\n     fixed[name] = value;\n   }\n }\n\n   return fixed;\n }\n\n
/**\n * Returns a {@link Node#raws} value. If the node is missing\n * the code style property (because the node
was manually built or cloned),\n * PostCSS will try to autodetect the code style property by looking\n * at other
nodes in
the tree.\n *\n * @param {string} prop      - name of code style property\n * @param {string} [defaultType] -
name of default value, it can be missed\n *\n * if the value is the same as prop\n *\n *
@example\n * const root = postcss.parse('a { background: white }');\n * root.nodes[0].append({ prop: 'color',
value: 'black' });\n * root.nodes[0].nodes[1].raws.before //=> undefined\n * root.nodes[0].nodes[1].raw('before')
//=> '\n *\n * @return {string} code style value\n *\n raw(prop, defaultType) {\n   const str = new
Stringifier();\n   return str.raw(this, prop, defaultType);\n }\n\n /**\n * Finds the Root instance of the node's
tree.\n *\n * @example\n * root.nodes[0].nodes[0].root() === root\n *\n * @return {Root} root parent\n *\n\n
root() {\n   let result = this;\n   while (result.parent) result = result.parent;\n   return result;\n }\n\n
cleanRaws(keepBetween) {\n   delete this.raws.before;\n
delete this.raws.after;\n   if (!keepBetween) delete this.raws.between;\n }\n\n positionInside(index) {\n   const
string = this.toString();\n   let column = this.source.start.column;\n   let line = this.source.start.line;\n\n   for (let i =
0; i < index; i++) {\n     if (string[i] === '\\n') {\n       column = 1;\n       line += 1;\n     } else {\n       column +=
1;\n     }\n   }\n\n   return { line, column };\n }\n\n positionBy(opts) {\n   let pos = this.source.start;\n   if
(opts.index) {\n     pos = this.positionInside(opts.index);\n   } else if (opts.word) {\n     const index =
this.toString().indexOf(opts.word);\n     if (index !== -1) pos = this.positionInside(index);\n   }\n   return pos;\n
}\n\n removeSelf() {\n   warnOnce('Node#removeSelf is deprecated. Use Node#remove.);\n   return
this.remove();\n }\n\n replace(nodes) {\n   warnOnce('Node#replace is deprecated. Use Node#replaceWith');\n
return this.replaceWith(nodes);\n }\n\n style(own,
detect) {\n   warnOnce('Node#style() is deprecated. Use Node#raw());\n   return this.raw(own, detect);\n }\n\n\n
cleanStyles(keepBetween) {\n   warnOnce('Node#cleanStyles() is deprecated. Use Node#cleanRaws());\n   return
this.cleanRaws(keepBetween);\n }\n\n get before() {\n   warnOnce('Node#before is deprecated. Use
Node#raws.before');\n   return this.raws.before;\n }\n\n set before(val) {\n   warnOnce('Node#before is
deprecated. Use Node#raws.before');\n   this.raws.before = val;\n }\n\n get between() {\n
warnOnce('Node#between is deprecated. Use Node#raws.between');\n   return this.raws.between;\n }\n\n set
between(val) {\n   warnOnce('Node#between is deprecated. Use Node#raws.between');\n   this.raws.between =
val;\n }\n\n /**\n * @memberof Node#\n * @member {string} type - String representing the node's type.\n *
Possible values are `root`, `atrule`, `rule`,\n * `decl`, or `comment`.\n *\n *
@example\n * postcss.decl({ prop: 'color', value: 'black' }).type //=> 'decl'\n *\n\n /**\n * @memberof
Node#\n * @member {Container} parent - the node's parent node.\n *\n * @example\n * root.nodes[0].parent
=== root;\n *\n\n /**\n * @memberof Node#\n * @member {source} source - the input source of the node\n
*\n * The property is used in source map generation.\n *\n * If you create a node manually (e.g., with
`postcss.decl()`),\n * that node will not have a `source` property and will be absent\n * from the source map. For

```



this reason, the plugin developer should consider cloning nodes to create new ones (in which case the new node's source will reference the original, cloned node) or setting the `source` property manually.

```

js // Bad const prefixed = postcss.decl({ prop: '-moz-' + decl.prop, value: decl.value });
// Good const prefixed = decl.clone({ prop: '-moz-' + decl.prop });
if ( atrule.name === 'add-link' ) { const rule = postcss.rule({ selector: 'a', source: atrule.source }); atrule.parent.insertBefore(atrule, rule); }
@example decl.source.input.from // => '/home/ai/a.sass' decl.source.start // => { line: 10, column: 2 }
decl.source.end // => { line: 10, column: 12 }

```

Information to generate byte-to-byte equal node string as it was in the origin input.

Every parser saves its own properties, but the default CSS parser uses:

- `before``: the space symbols before the node. It also stores ``` and `_`` symbols before the declaration (IE hack).
- `after``: the space symbols after the last child of the node to the end of the node.
- `between``: the symbols between the property and value for declarations, selector and `{`` for rules, or last parameter and `{`` for at-rules.
- `semicolon``: contains true if the last child has an (optional) semicolon.
- `afterName``: the space between the at-rule name and its parameters.
- `left``: the space symbols between `/*` and the comment's text.
- `right``: the space symbols between the comment's text and `<code>*&#47;</code>`.
- `important``: the content of the important statement, if it is not just `!important``.

PostCSS cleans selectors, declaration values and at-rule parameters from comments and extra spaces, but it stores origin content in `raw` properties. As such, if you don't change a declaration's value, PostCSS will use the raw value with comments.

```

@example const root = postcss.parse('a { color:black }')
root.first.first.raws // => { before: '\n ', between: ':' }

```

```

export default Node;
import Node from './node';
Represents a CSS declaration.
@extends Node
@example const root = postcss.parse('a { color: black }');
const decl = root.first.first;
decl.type // => 'decl'
decl.toString() // => 'color: black'
class Declaration extends Node {
  constructor(defaults) {
    super(defaults);
    this.type = 'decl';
  }
  get _value() {
    warnOnce('Node#_value was deprecated. Use Node#raws.value');
    return this.raws.value;
  }
  set _value(val) {
    warnOnce('Node#_value was deprecated. Use Node#raws.value');
    this.raws.value = val;
  }
  get _important() {
    warnOnce('Node#_important was deprecated. Use Node#raws.important');
    return this.raws.important;
  }
  set _important(val) {
    warnOnce('Node#_important was deprecated. Use Node#raws.important');
    this.raws.important = val;
  }
}
@memberof Declaration
@member {string} prop
- the declaration's property name
@example const root = postcss.parse('a { color: black }');
const decl = root.first.first;
decl.prop // => 'color'
@memberof Declaration
@member {string} value - the declaration's value
@example const root = postcss.parse('a { color: black }');
const decl = root.first.first;
decl.value // => 'black'
@memberof Declaration
@member {boolean} important - `true` if the declaration has an !important annotation.
@example const root = postcss.parse('a { color: black !important; color: red }');
root.first.first.important // => true
root.first.last.important // => undefined
@memberof Declaration
@member {object} raws - Information to generate byte-to-byte equal node string as it was in the origin input.
Every parser saves its own properties, but the default CSS parser uses:
before` : the space symbols before the node. It also stores ` and _` symbols before the declaration (IE hack).
between` : the symbols between the property and value for declarations, selector and `{` for rules, or last parameter and `{` for at-rules.
important` : the content of the important statement, if it is not just !important.
PostCSS cleans declaration from comments and extra spaces, but it stores origin content in raws properties.
As such, if you don't change a declaration's value, PostCSS will use the raw value with comments.
@example const root = postcss.parse('a { color:black }')
root.first.first.raws // => { before: '\n ',

```

```

between: ':' }\n */\n\nexport default Declaration;\n", "// @flow\nimport warnOnce from './warn-once';\nimport
Node from './node';\n\n/**\n * Represents a comment
between declarations or statements (rule and at-rules).\n *\n * Comments inside selectors, at-rule parameters, or
declaration values\n * will be stored in the `raws` properties explained above.\n *\n * @extends Node\n */\n
class Comment extends Node {\n  constructor(defaults) {\n    super(defaults);\n    this.type = 'comment';\n  }\n  get left()
{\n    warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n    return this.raws.left;\n  }\n  set
left(val) {\n    warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n    this.raws.left = val;\n  }\n  get
right() {\n    warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n    return this.raws.right;\n  }\n  set
right(val) {\n    warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n    this.raws.right
= val;\n  }\n  /**\n   * @memberof Comment#\n   * @member {string} text - the comment's text\n   */\n  *\n   * @memberof Comment#\n   * @member {object} raws - Information to
generate byte-to-byte equal\n   * node string as it was in the origin input.\n   *\n   * Every parser
saves its own properties,\n   * but the default CSS parser uses:\n   * * `before`: the space symbols before the
node.\n   * * `left`: the space symbols between `/*` and the comment's text.\n   * * `right`: the space symbols
between the comment's text.\n   */\n}\n\nexport default Comment;\n", "// @flow\nimport Declaration from
 './declaration';\nimport tokenizer from './tokenizer';\nimport Comment from './comment';\nimport AtRule from './at-
rule';\nimport Root from './root';\nimport Rule from './rule';\n\nexport default class Parser {\n  constructor(input) {\n
this.input = input;\n  }\n  this.pos = 0;\n  this.root = new Root();\n  this.current = this.root;\n  this.spaces = "";\n
this.semicolon = false;\n  this.root.source = { input, start: { line: 1, column: 1 } };\n  }\n  tokenize() {\n
this.tokens = tokenizer(this.input);\n  }\n  loop()
{\n    let token;\n    while (this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      switch
(token[0]) {\n        case 'space':\n          case ';':\n            this.spaces += token[1];\n            break;\n        case '':\n          this.end(token);\n          break;\n        case 'comment':\n          this.comment(token);\n          break;\n        case 'at-
word':\n          this.atrule(token);\n          break;\n        case '{':\n          this.emptyRule(token);\n          break;\n        default:\n          this.other();\n          break;\n      }\n      this.pos += 1;\n    }\n    this.endFile();\n  }\n  comment(token) {\n    const node = new Comment();\n    this.init(node, token[2], token[3]);\n    node.source.end = {
line: token[4], column: token[5] };\n    const text = token[1].slice(2, -2);\n    if (/^\s*$/ .test(text)) {\n      node.text
= "";\n      node.raws.left = text;\n      node.raws.right = "";\n    } else {\n      const match =
text.match(/^(\\s*)([^\s]*)(\\s*)$/);\n      node.text = match[2];\n      node.raws.left = match[1];\n      node.raws.right = match[3];\n    }\n  }\n  emptyRule(token) {\n    const node = new Rule();\n    this.init(node, token[2], token[3]);\n    node.selector = "";\n
node.raws.between = "";\n    this.current = node;\n  }\n  other() {\n    let token;\n    let end = false;\n    let type =
null;\n    let colon = false;\n    let bracket = null;\n    const brackets = [];\n    const start = this.pos;\n    while
(this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      type = token[0];\n      if (type === '(' || type
=== '[') {\n        if (!bracket) bracket = token;\n        brackets.push(type === '(' ? ')' : ']');\n      } else if
(brackets.length === 0) {\n        if (type === ';') {\n          if (colon) {\n            this.decl(this.tokens.slice(start,
this.pos + 1));\n            return;\n          } else {\n            break;\n          }\n        }\n        else if (type === '{') {\n          this.rule(this.tokens.slice(start, this.pos + 1));\n          return;\n        } else if (type ===
}') {\n          this.pos -= 1;\n          end = true;\n          break;\n        } else if (type === ':') {\n          colon = true;\n          }\n      } else if (type === brackets[brackets.length - 1]) {\n        brackets.pop();\n        if (brackets.length === 0)\n          bracket = null;\n      }\n      this.pos += 1;\n    }\n    if (this.pos === this.tokens.length) {\n      this.pos -= 1;\n      end = true;\n    }\n    if (brackets.length > 0) this.unclosedBracket(bracket);\n    if (end && colon) {\n      while
(this.pos > start) {\n        token = this.tokens[this.pos][0];\n        if (token !== 'space' && token !== 'comment')\n          break;\n        this.pos -= 1;\n      }\n      this.decl(this.tokens.slice(start, this.pos + 1));\n      return;\n    }\n    this.unknownWord(start);\n  }\n  rule(tokens) {\n    tokens.pop();\n    const node = new Rule();\n    this.init(node, tokens[0][2], tokens[0][3]);\n    node.raws.between = this.spacesFromEnd(tokens);\n    this.raw(node, 'selector', tokens);\n    this.current = node;\n  }\n  decl(tokens) {\n    const node = new
Declaration();\n    this.init(node);\n    const last = tokens[tokens.length - 1];\n    if (last[0] === ';') {\n

```

```

this.semicolon = true;\n  tokens.pop();\n  }\n  if (last[4]) {\n    node.source.end = { line: last[4], column:
last[5] };\n  } else {\n    node.source.end = { line: last[2], column: last[3] };\n  }\n  while (tokens[0][0] !==
'word') {\n    node.rows.before += tokens.shift()[1];\n    node.source.start = { line: tokens[0][2], column:
tokens[0][3] };\n    node.prop = ";\n    while (tokens.length) {\n      const type = tokens[0][0];\n      if (type === ':' ||
type === 'space' || type === 'comment') {\n        break;\n      }\n      node.prop += tokens.shift()[1];\n    }\n    node.rows.between = ";\n    let token;\n    while
(tokens.length) {\n      token = tokens.shift();\n      if (token[0] === ':') {\n        node.rows.between += token[1];\n
        break;\n      } else {\n        node.rows.between += token[1];\n      }\n      if (node.prop[0] === '_' ||
node.prop[0] === '*') {\n        node.rows.before += node.prop[0];\n        node.prop = node.prop.slice(1);\n      }\n
node.rows.between += this.spacesFromStart(tokens);\n      this.precheckMissedSemicolon(tokens);\n      for (let i =
tokens.length - 1; i > 0; i--) {\n        token = tokens[i];\n        if (token[1] === '!important') {\n          node.important =
true;\n          let string = this.stringFrom(tokens, i);\n          string = this.spacesFromEnd(tokens) + string;\n          if
(string !== '!important') node.rows.important = string;\n          break;\n        } else if (token[1] === 'important') {\n
const cache = tokens.slice(0);\n          let str = ";\n          for (let j = i; j > 0; j--) {\n            const type = cache[j][0];\n
if (str.trim().indexOf('!')
=== 0 && type !== 'space') {\n              break;\n            }\n            str = cache.pop()[1] + str;\n          }\n          if
(str.trim().indexOf('!') === 0) {\n            node.important = true;\n            node.rows.important = str;\n            tokens =
cache;\n          }\n          if (token[0] !== 'space' && token[0] !== 'comment') {\n            break;\n          }\n          this.raw(node, 'value', tokens);\n          if (node.value.indexOf(':') !== -1) this.checkMissedSemicolon(tokens);\n        }\n      }\n      atrule(token) {\n        const node = new AtRule();\n        node.name = token[1].slice(1);\n        if (node.name === "") {\n          this unnamedAtRule(node, token);\n        }\n        this.init(node, token[2], token[3]);\n        let last = false;\n        let open =
false;\n        const params = [];\n        this.pos += 1;\n        while (this.pos < this.tokens.length) {\n          token =
this.tokens[this.pos];\n          if (token[0] === ';') {\n            node.source.end = { line: token[2], column: token[3] };\n
            this.semicolon = true;\n            break;\n          } else if (token[0] === '{') {\n            open = true;\n            break;\n          }
else if (token[0] === '}') {\n            this.end(token);\n            break;\n          } else {\n            params.push(token);\n          }\n          this.pos += 1;\n        }\n        if (this.pos === this.tokens.length) {\n          last = true;\n        }\n        node.rows.between =
this.spacesFromEnd(params);\n        if (params.length) {\n          node.rows.afterName = this.spacesFromStart(params);\n          this.raw(node, 'params', params);\n          if (last) {\n            token = params[params.length - 1];\n            node.source.end
= { line: token[4], column: token[5] };\n            this.spaces = node.rows.between;\n            node.rows.between = ";\n          }\n        } else {\n          node.rows.afterName = ";\n          node.params = ";\n        }\n        if (open) {\n          node.nodes = [];\n          this.current = node;\n        }\n      }\n    }\n    end(token) {\n      if (this.current.nodes && this.current.nodes.length) {\n        this.current.rows.semicolon = this.semicolon;\n      }\n      this.semicolon = false;\n      this.current.rows.after =
(this.current.rows.after || "") + this.spaces;\n      this.spaces = ";\n      if (this.current.parent) {\n        this.current.source.end = { line: token[2], column: token[3] };\n        this.current = this.current.parent;\n      } else {\n        this.unexpectedClose(token);\n      }\n    }\n    endFile() {\n      if (this.current.parent) this.unclosedBlock();\n      if
(this.current.nodes && this.current.nodes.length) {\n        this.current.rows.semicolon = this.semicolon;\n      }\n      this.current.rows.after = (this.current.rows.after || "") + this.spaces;\n    }\n    // Helpers\n    init(node, line, column)
{\n      this.current.push(node);\n      node.source = { start: { line, column }, input: this.input };\n      node.rows.before
= this.spaces;\n      this.spaces = ";\n      if (node.type !== 'comment') this.semicolon = false;\n    }\n    raw(node, prop,
tokens) {\n      let token, type;\n      const
length = tokens.length;\n      let value = ";\n      let clean = true;\n      for (let i = 0; i < length; i += 1) {\n        token =
tokens[i];\n        type = token[0];\n        if (type === 'comment' || (type === 'space' && i === length - 1)) {\n          clean
= false;\n        } else {\n          value += token[1];\n        }\n      }\n      if (!clean) {\n        const raw = tokens.reduce((all, i)
=> all + i[1], "");\n        node.rows[prop] = { value, raw };\n      }\n      node[prop] = value;\n    }\n    spacesFromEnd(tokens) {\n      let lastTokenType;\n      let spaces = ";\n      while (tokens.length) {\n        lastTokenType
= tokens[tokens.length - 1][0];\n        if (lastTokenType !== 'space' && lastTokenType !== 'comment') break;\n        spaces = tokens.pop()[1] + spaces;\n      }\n      return spaces;\n    }\n    spacesFromStart(tokens) {\n      let next;\n      let
spaces = ";\n      while (tokens.length) {\n        next = tokens[0][0];\n        if (next !== 'space' && next !== 'comment')

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break;\n   spaces += tokens.shift()[1];\n
}\n   return spaces;\n }\n\n stringFrom(tokens, from) {\n   let result = "";   for (let i = from; i < tokens.length; i++) {\n     result += tokens[i][1];\n   }\n   tokens.splice(from, tokens.length - from);\n   return result;\n }\n\n colon(tokens) {\n   let brackets = 0;\n   let token, type, prev;\n   for (let i = 0; i < tokens.length; i++) {\n     token = tokens[i];\n     type = token[0];\n     if (type === '(') {\n       brackets += 1;\n     } else if (type === ')') {\n       brackets -= 1;\n     } else if (brackets === 0 && type === ':') {\n       if (!prev) {\n         this.doubleColon(token);\n       } else if (prev[0] === 'word' && prev[1] === 'progid') {\n         continue;\n       } else {\n         return i;\n       }\n     }\n     prev = token;\n   }\n   return false;\n }\n\n // Errors\n\n unclosedBracket(bracket) {\n   throw this.input.error('Unclosed bracket', bracket[2], bracket[3]);\n }\n\n unknownWord(start) {\n   const token = this.tokens[start];\n   throw this.input.error('Unknown word', token[2], token[3]);\n }\n\n unexpectedClose(token) {\n   throw this.input.error('Unexpected }', token[2], token[3]);\n }\n\n unclosedBlock()\n {\n   const pos = this.current.source.start;\n   throw this.input.error('Unclosed block', pos.line, pos.column);\n }\n\n doubleColon(token) {\n   throw this.input.error('Double colon', token[2], token[3]);\n }\n\n unnamedAtrule(node, token) {\n   throw this.input.error('At-rule without name', token[2], token[3]);\n }\n\n precheckMissedSemicolon(tokens) {\n   // Hook for Safe Parser\n   tokens;\n }\n\n checkMissedSemicolon(tokens) {\n   const colon = this.colon(tokens);\n   if (colon === false) return;\n\n   let founded = 0;\n   let token;\n   for (let j = colon - 1; j >= 0; j--) {\n     token = tokens[j];\n     if (token[0] !== 'space') {\n       founded += 1;\n       if (founded === 2) break;\n     }\n   }\n   throw this.input.error('Missed semicolon', token[2], token[3]);\n }\n\n\n", "// @flow\n\nimport Parser from './parser';\nimport Input from './input';\n\nexport default function parse(css, opts) {\n  if (opts && opts.safe) {\n    throw new Error('Option safe was removed. ' + 'Use parser: require(\"postcss-safe-parser\")');\n  }\n\n  const input = new Input(css, opts);\n  const parser = new Parser(input);\n  try {\n    parser.tokenize();\n    parser.loop();\n  } catch (e) {\n    if (e.name === 'CssSyntaxError' && opts && opts.from) {\n      if (/\\.scss$/i.test(opts.from)) {\n        e.message +=\n          '\nYou tried to parse SCSS with ' +\n            'the standard CSS parser; ' +\n            'try again with the postcss-scss parser';\n      } else if (/\\.less$/i.test(opts.from)) {\n        e.message +=\n          '\nYou tried to parse Less with ' +\n            'the standard CSS parser; ' +\n            'try again with the postcss-less parser';\n      }\n    }\n    throw e;\n  }\n\n  return parser.root;\n }\n\n", "// @flow\n\nimport\n parse from './parse';\nimport Root from './root';\nimport Rule from './rule';\nimport AtRule from './at-rule';\nimport Declaration from './declaration';\nimport warnOnce from './warn-once';\nimport Comment from './comment';\nimport Node from './node';\n\nfunction cleanSource(nodes) {\n  return nodes.map(i => {\n    if (i.nodes) i.nodes = cleanSource(i.nodes);\n    delete i.source;\n    return i;\n  });\n }\n\n\n\n * @callback childCondition\n * @param {Node} node - container child\n * @param {number} index - child index\n * @param {Node[]} nodes - all container children\n * @return {boolean} * \\n \\n ** \\n * @callback childIterator\n * @param {Node} node - container child\n * @param {number} index - child index\n * @return {false|undefined} returning `false` will break iteration\n * \\n \\n ** \\n * The { @link Root }, { @link AtRule }, and { @link Rule } container nodes\n * inherit some common methods to help work with their children.\n * \\n * Note that all containers can store any content. If you write a rule inside\n * a rule, PostCSS will parse it.\n * \\n * @extends Node\n * @abstract\n * \\n \\n class Container extends Node {\n   push(child) {\n     child.parent = this;\n     this.nodes.push(child);\n     return this;\n   }\n }\n\n * \\n \\n ** \\n * Iterates through the container's immediate children,\n * calling `callback` for each child.\n * \\n * Returning `false` in the callback will break iteration.\n * \\n * This method only iterates through the container's immediate children.\n * \\n * If you need to recursively iterate through all the container's descendant\n * nodes, use { @link Container#walk }. \\n * \\n * Unlike the for `{ }`-cycle or `Array#forEach` this iterator is safe\n * if you are mutating the array of child nodes during iteration.\n * \\n * PostCSS will adjust the current index to match the mutations.\n * \\n * @param {childIterator} callback - iterator receives each node and index\n * \\n * @return {false|undefined} returns `false` if iteration was broke\n\n * \\n * @example\n * const root = postcss.parse('a { color: black; z-index: 1 }');\n * const rule = root.first;\n * \\n * for ( let decl of rule.nodes ) {\n *   decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n *   // Cycle will be infinite, because cloneBefore moves the current node\n *   // to the next index\n * }\n * \\n * rule.each(decl

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=> {\n * decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n * // Will be executed only for color and z-
index\n * });\n *^\n each(callback) {\n if (!this.lastEach) this.lastEach = 0;\n if (!this.indexes) this.indexes =
{};\n\n this.lastEach += 1;\n const id = this.lastEach;\n this.indexes[id] = 0;\n\n if (!this.nodes) return
undefined;\n\n let index, result;\n while (this.indexes[id] < this.nodes.length) {\n index = this.indexes[id];\n
result = callback(this.nodes[index], index);\n if (result === false) break;\n\n this.indexes[id] += 1;\n }\n\n
delete this.indexes[id];\n\n
return result;\n }\n\n /**\n * Traverses the container's descendant nodes, calling callback\n * for each node.\n
*\n * Like container.each(), this method is safe\n * if you are mutating arrays during iteration.\n *\n * If
you only need to iterate through the container's immediate children,\n * use {@link Container#each}.\n *\n *
@param {childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns
`false` if iteration was broke\n *\n * @example\n * root.walk(node => {\n * // Traverses all descendant
nodes.\n * });\n *^\n walk(callback) {\n return this.each((child, i) => {\n let result = callback(child, i);\n
if
(result !== false && child.walk) {\n result = child.walk(callback);\n }\n return result;\n });\n }\n\n
/**\n * Traverses the container's descendant nodes, calling callback\n * for each declaration node.\n *\n * If
you pass
a filter, iteration will only happen over declarations\n * with matching properties.\n *\n * Like {@link
Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n *\n * @param
{string|RegExp} [prop] - string or regular expression\n * to filter declarations by property
name\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return
{false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkDecls(decl => {\n *
checkPropertySupport(decl.prop);\n * });\n *\n * root.walkDecls('border-radius', decl => {\n *
decl.remove();\n * });\n *\n * root.walkDecls(/^background/, decl => {\n * decl.value =
takeFirstColorFromGradient(decl.value);\n * });\n *^\n walkDecls(prop, callback) {\n if (!callback) {\n
callback = prop;\n return this.walk((child, i) => {\n if (child.type === 'decl') {\n
return callback(child, i);\n }\n });\n } else if (prop instanceof RegExp) {\n return this.walk((child, i)
=> {\n if (child.type === 'decl' && prop.test(child.prop)) {\n return callback(child, i);\n }\n });\n }
else {\n return this.walk((child, i) => {\n if (child.type === 'decl' && child.prop === prop) {\n return
callback(child, i);\n }\n });\n }\n }\n\n /**\n * Traverses the container's descendant nodes, calling
callback\n * for each rule node.\n *\n * If you pass a filter, iteration will only happen over rules\n * with
matching selectors.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating
arrays during iteration.\n *\n * @param {string|RegExp} [selector] - string or regular expression\n *
to filter rules by selector\n * @param {childIterator} callback - iterator receives each node and index\n
*\n *\n * @return {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * const selectors = [];\n
*\n * root.walkRules(rule => {\n * selectors.push(rule.selector);\n * });\n * console.log(`Your CSS uses
${selectors.length} selectors`);\n *^\n walkRules(selector, callback) {\n if (!callback) {\n callback =
selector;\n\n return this.walk((child, i) => {\n if (child.type === 'rule') {\n return callback(child, i);\n
}\n });\n } else if (selector instanceof RegExp) {\n return this.walk((child, i) => {\n if (child.type ===
'rule' && selector.test(child.selector)) {\n return callback(child, i);\n }\n });\n } else {\n return
this.walk((child, i) => {\n if (child.type === 'rule' && child.selector === selector) {\n return
callback(child, i);\n }\n });\n }\n }\n\n /**\n * Traverses the container's descendant nodes, calling
callback\n * for each
at-rule node.\n *\n * If you pass a filter, iteration will only happen over at-rules\n * that have matching names.\n
*\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n
*\n * @param {string|RegExp} [name] - string or regular expression\n * to filter at-rules by
name\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return
{false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkAtRules(rule => {\n *
if ( isOld(rule.name) ) rule.remove();\n * });\n *\n * let first = false;\n * root.walkAtRules('charset', rule => {\n

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* if ( !first ) {\n *   first = true;\n * } else {\n *   rule.remove();\n * }\n * });\n *\n walkAtRules(name,
callback) {\n   if (!callback) {\n     callback = name;\n     return this.walk((child, i) => {\n       if (child.type ===
'atrul') {\n
         return callback(child, i);\n       }\n     })\n   } else if (name instanceof RegExp) {\n     return
this.walk((child, i) => {\n       if (child.type === 'atrul' && name.test(child.name)) {\n         return callback(child,
i);\n       }\n     })\n   } else {\n     return this.walk((child, i) => {\n       if (child.type === 'atrul' && child.name
=== name) {\n         return callback(child, i);\n       }\n     })\n   }\n }\n\n /**\n * Traverses the container's
descendant nodes, calling callback\n * for each comment node.\n * Like {@link Container#each}, this
method is safe\n * to use if you are mutating arrays during iteration.\n * @param {childIterator} callback -
iterator receives each node and index\n * @return {false|undefined} returns `false` if iteration was broke\n
*\n * @example\n * root.walkComments(comment => {\n *   comment.remove();\n * });\n *\n walkComments(callback) {\n   return this.walk((child,
i) => {\n     if (child.type === 'comment') {\n       return callback(child, i);\n     }\n   })\n }\n\n /**\n * Inserts
new nodes to the start of the container.\n * @param {...(Node|object|string|Node[])} children - new nodes\n
*\n * @return {Node} this node for methods chain\n * @example\n * const decl1 = postcss.decl({ prop:
'color', value: 'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n *
rule.append(decl1, decl2);\n * root.append({ name: 'charset', params: "\"UTF-8\"" }); // at-rule\n *
root.append({ selector: 'a' }); // rule\n * rule.append({ prop: 'color', value: 'black' }); //
declaration\n * rule.append({ text: 'Comment' }) // comment\n * root.append('a {}');\n *
root.first.append('color: black; z-index: 1');\n *\n append(...children) {\n   children.forEach(child => {\n     const
nodes = this.normalize(child, this.last);\n
     nodes.forEach(node => this.nodes.push(node));\n   });\n   return this;\n }\n\n /**\n * Inserts new nodes to the
end of the container.\n * @param {...(Node|object|string|Node[])} children - new nodes\n * @return
{Node} this node for methods chain\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value:
'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.prepend(decl1,
decl2);\n * root.append({ name: 'charset', params: "\"UTF-8\"" }); // at-rule\n * root.append({ selector: 'a' });
// rule\n * rule.append({ prop: 'color', value: 'black' }); // declaration\n * rule.append({ text:
'Comment' }) // comment\n * root.append('a {}');\n * root.first.append('color: black; z-index:
1');\n *\n prepend(...children) {\n   children = children.reverse();\n   children.forEach(child => {\n     const
nodes = this.normalize(child,
this.first, 'prepend').reverse();\n     nodes.forEach(node => this.nodes.unshift(node));\n     for (const id in
this.indexes) {\n       this.indexes[id] = this.indexes[id] + nodes.length;\n     }\n   });\n   return this;\n }\n\n
cleanRaws(keepBetween) {\n   super.cleanRaws(keepBetween);\n   if (this.nodes) {\n     this.nodes.forEach(node
=> node.cleanRaws(keepBetween));\n   }\n }\n\n /**\n * Insert new node before old node within the container.\n
*\n * @param {Node|number} exist - child or child's index.\n * @param {Node|object|string|Node[]} add
- new node\n * @return {Node} this node for methods chain\n * @example\n * rule.insertBefore(decl,
decl.clone({ prop: '-webkit-' + decl.prop }));\n *\n insertBefore(exist, add) {\n   exist = this.index(exist);\n   const
type = exist === 0 ? 'prepend' : false;\n   const nodes = this.normalize(add, this.nodes[exist], type).reverse();\n
   nodes.forEach(node => this.nodes.splice(exist,
0, node));\n }\n\n let index;\n for (const id in this.indexes) {\n   index = this.indexes[id];\n   if (exist <= index)
{\n     this.indexes[id] = index + nodes.length;\n   }\n }\n\n return this;\n }\n\n /**\n * Insert new node
after old node within the container.\n * @param {Node|number} exist - child or child's index\n *
@param {Node|object|string|Node[]} add - new node\n * @return {Node} this node for methods chain\n *\n
insertAfter(exist, add) {\n   exist = this.index(exist);\n   const nodes = this.normalize(add,
this.nodes[exist]).reverse();\n   nodes.forEach(node => this.nodes.splice(exist + 1, 0, node));\n }\n\n let index;\n for
(const id in this.indexes) {\n   index = this.indexes[id];\n   if (exist < index) {\n     this.indexes[id] = index +
nodes.length;\n   }\n }\n\n return this;\n }\n\n remove(child) {\n   if (typeof child !== 'undefined') {\n
warnOnce('Container#remove is deprecated.

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' + 'Use Container#removeChild');\n    this.removeChild(child);\n  } else {\n    super.remove();\n  }\n  return
this;\n }\n\n /**\n  * Removes node from the container and cleans the parent properties\n  * from the node and its
children.\n  *\n  * @param {Node|number} child - child or child's index\n  *\n  * @return {Node} this node for
methods chain\n  *\n  * @example\n  * rule.nodes.length //=> 5\n  * rule.removeChild(decl);\n  *
rule.nodes.length //=> 4\n  * decl.parent //=> undefined\n  *\n  * removeChild(child) {\n    child =
this.index(child);\n    this.nodes[child].parent = undefined;\n    this.nodes.splice(child, 1);\n  }\n  let index;\n  for
(const id in this.indexes) {\n    index = this.indexes[id];\n    if (index >= child) {\n      this.indexes[id] = index -
1;\n    }\n  }\n  }\n\n return this;\n }\n\n /**\n  * Removes all children from the container\n  * and cleans their
parent properties.\n  *\n  * @return {Node} this node
for methods chain\n  *\n  * @example\n  * rule.removeAll();\n  * rule.nodes.length //=> 0\n  *\n  * removeAll()
{\n    this.nodes.forEach(node => (node.parent = undefined));\n    this.nodes = [];\n    return this;\n }\n\n /**\n  *
Passes all declaration values within the container that match pattern\n  * through callback, replacing those values
with the returned result\n  * of callback.\n  *\n  * This method is useful if you are using a custom unit or
function\n  * and need to iterate through all values.\n  *\n  * @param {string|RegExp} pattern - replace
pattern\n  * @param {object} opts - options to speed up the search\n  * @param {string|string[]}
opts.props - an array of property names\n  * @param {string} opts.fast - string that's used\n  *
to narrow down values and speed up\n  * the regexp search\n  * @param
{function|string} callback
- string to replace pattern\n  * or callback that returns a new\n  *
value.\n  * The callback will receive\n  * the same arguments as
those\n  * passed to a function parameter\n  * of
`String#replace`.\n  *\n  * @return {Node} this node for methods chain\n  *\n  * @example\n  *
root.replaceValues(/\\d+rem/, { fast: 'rem' }, string => {\n    * return 15 * parseInt(string) + 'px';\n    * });\n  *\n  *
replaceValues(pattern, opts, callback) {\n    if (!callback) {\n      callback = opts;\n      opts = {};\n    }\n  }\n\n
this.walkDecls(decl => {\n    if (opts.props && opts.props.indexOf(decl.prop) === -1) return;\n    if (opts.fast &&
decl.value.indexOf(opts.fast) === -1) return;\n    decl.value = decl.value.replace(pattern,
callback);\n  });\n\n return this;\n }\n\n /**\n  * Returns `true` if callback returns `true`\n  * for all of the
container's children.\n  *\n  * @param {childCondition} condition - iterator returns true or false.\n  *\n  *
@return {boolean} is every child pass condition\n  *\n  * @example\n  * const noPrefixes = rule.every(i =>
i.prop[0] !== '-');\n  *\n  * every(condition) {\n    return this.nodes.every(condition);\n  }\n\n /**\n  * Returns `true`
if callback returns `true` for (at least) one\n  * of the container's children.\n  *\n  * @param {childCondition}
condition - iterator returns true or false.\n  *\n  * @return {boolean} is some child pass condition\n  *\n  *
@example\n  * const hasPrefix = rule.some(i => i.prop[0] === '-');\n  *\n  * some(condition) {\n    return
this.nodes.some(condition);\n  }\n\n /**\n  * Returns a `child`'s index within the {@link Container#nodes} array.\n
*\n  * @param {Node} child - child of the current container.\n
*\n  * @return {number} child index\n  *\n  * @example\n  * rule.index( rule.nodes[2] ) //=> 2\n  *\n  *
index(child) {\n    if (typeof child === 'number') {\n      return child;\n    } else {\n      return
this.nodes.indexOf(child);\n    }\n  }\n\n /**\n  * The container's first child.\n  *\n  * @type {Node}\n  *\n  *
@example\n  * rule.first === rules.nodes[0];\n  *\n  * get first() {\n    if (!this.nodes) return undefined;\n    return
this.nodes[0];\n  }\n\n /**\n  * The container's last child.\n  *\n  * @type {Node}\n  *\n  * @example\n  *
rule.last === rule.nodes[rule.nodes.length - 1];\n  *\n  * get last() {\n    if (!this.nodes) return undefined;\n    return
this.nodes[this.nodes.length - 1];\n  }\n\n normalize(nodes, sample) {\n    if (typeof nodes === 'string') {\n      nodes
= cleanSource(parse(nodes).nodes);\n    } else if (!Array.isArray(nodes)) {\n      if (nodes.type === 'root') {\n
nodes = nodes.nodes;\n      } else if (nodes.type) {\n
nodes = [nodes];\n      } else if (nodes.prop) {\n      if (typeof nodes.value === 'undefined') {\n        throw
new Error('Value field is missed in node creation');\n      } else if (typeof nodes.value !== 'string') {\n
nodes.value = String(nodes.value);\n      }\n      nodes = [new Declaration(nodes)];\n      } else if (nodes.selector)
{\n      nodes = [new Rule(nodes)];\n      } else if (nodes.name) {\n      nodes = [new AtRule(nodes)];\n      } else if

```

```

(nodes.text) {\n    nodes = [new Comment(nodes)];\n    } else {\n        throw new Error('Unknown node type in
node creation');\n    }\n    }\n\n    const processed = nodes.map(i => {\n        if (typeof i.raws === 'undefined') i =
this.rebuild(i);\n\n        if (i.parent) i = i.clone();\n        if (typeof i.raws.before === 'undefined') {\n            if (sample &&
typeof sample.raws.before !== 'undefined') {\n                i.raws.before = sample.raws.before.replace(/^(\\s)/g, "");\n
            }\n        }\n\n        i.parent = this;\n        return i;\n    });\n\n    return processed;\n }\n\n rebuild(node, parent) {\n    let fix;\n    if
(node.type === 'root') {\n        fix = new Root();\n    } else if (node.type === 'atrule') {\n        fix = new AtRule();\n    }
else if (node.type === 'rule') {\n        fix = new Rule();\n    } else if (node.type === 'decl') {\n        fix = new
Declaration();\n    } else if (node.type === 'comment') {\n        fix = new Comment();\n    }\n\n    for (const i in node)
{\n        if (i === 'nodes') {\n            fix.nodes = node.nodes.map(j => this.rebuild(j, fix));\n        } else if (i === 'parent'
&& parent) {\n            fix.parent = parent;\n        } else if (node.hasOwnProperty(i)) {\n            fix[i] = node[i];\n        }\n
    }\n\n    return fix;\n }\n\n eachInside(callback) {\n    warnOnce('Container#eachInside is deprecated. ' + 'Use
Container#walk instead.);\n    return this.walk(callback);\n }\n\n eachDecl(prop, callback) {\n
warnOnce('Container#eachDecl is deprecated. ' + 'Use Container#walkDecls instead.);\n    return this.walkDecls(prop, callback);\n
}\n\n eachRule(selector, callback) {\n    warnOnce('Container#eachRule is deprecated. ' + 'Use Container#walkRules instead.);\n    return
this.walkRules(selector, callback);\n }\n\n eachAtRule(name, callback) {\n    warnOnce('Container#eachAtRule is
deprecated. ' + 'Use Container#walkAtRules instead.);\n    return this.walkAtRules(name, callback);\n }\n\n
eachComment(callback) {\n    warnOnce('Container#eachComment is deprecated. ' + 'Use
Container#walkComments instead.);\n    return this.walkComments(callback);\n }\n\n get semicolon() {\n
warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n    return this.raws.semicolon;\n }\n\n set
semicolon(val) {\n    warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n
this.raws.semicolon = val;\n }\n\n get after() {\n    warnOnce('Node#after is deprecated. Use Node#raws.after');\n
return this.raws.after;\n }\n\n set after(val) {\n    warnOnce('Node#after is deprecated. Use Node#raws.after');\n    this.raws.after = val;\n
}\n\n /**\n  * @memberof Container#\n  * @member {Node[]} nodes - an array containing the container's
children\n  *\n  * @example\n  * const root = postcss.parse('a { color: black }');\n  * root.nodes.length //=>
1\n  * root.nodes[0].selector //=> 'a'\n  * root.nodes[0].nodes[0].prop //=> 'color'\n  */\n\n\nexport default
Container;\n", "// @flow\nimport Container from './container';\nimport warnOnce from './warn-once';\n\n/**\n *
Represents an at-rule.\n *\n * If it's followed in the CSS by a { } block, this node will have\n * a nodes property
representing its children.\n *\n * @extends Container\n *\n * @example\n * const root = postcss.parse('@charset
\'UTF-8\'; @media print {}');\n *\n * const charset = root.first;\n * charset.type //=> 'atrule'\n * charset.nodes //=>
undefined\n *\n * const media = root.last;\n * media.nodes //=> []\n\n *\n * @class AtRule extends Container {\n    constructor(defaults) {\n        super(defaults);\n        this.type = 'atrule';\n    }\n\n    append(...children) {\n        if (!this.nodes) this.nodes = [];\n        return super.append(...children);\n    }\n\n    prepend(...children) {\n        if (!this.nodes) this.nodes = [];\n        return super.prepend(...children);\n    }\n\n    get
afterName() {\n        warnOnce('AtRule#afterName was deprecated. Use AtRule#raws.afterName');\n        return
this.raws.afterName;\n    }\n\n    set afterName(val) {\n        warnOnce('AtRule#afterName was deprecated. Use
AtRule#raws.afterName');\n        this.raws.afterName = val;\n    }\n\n    get _params() {\n        warnOnce('AtRule#_params
was deprecated. Use AtRule#raws.params');\n        return this.raws.params;\n    }\n\n    set _params(val) {\n
warnOnce('AtRule#_params was deprecated. Use AtRule#raws.params');\n        this.raws.params = val;\n    }\n\n    /**\n
* @memberof AtRule#\n * @member {string} name - the at-rule's name immediately follows the '@'\n *\n *
@example\n * const root = postcss.parse('@media print {}');\n * media.name //=> 'media'\n * const media =
root.first;\n *\n * @memberof AtRule#\n * @member {string} params - the at-rule's parameters, the
values\n * that follow the at-rule's name but precede\n * any { } block\n *\n *
@example\n * const root = postcss.parse('@media print, screen {}');\n * const media = root.first;\n *\n
media.params //=> 'print, screen'\n *\n * @memberof AtRule#\n * @member {object} raws -
Information to generate byte-to-byte equal\n * node string as it was in the origin input.\n *\n *

```



Every parser saves its own properties, but the default CSS parser uses: `before`: the space symbols before the node. It also stores ` ` and ` \_ ` symbols before the declaration (IE hack). `after`: the space symbols after the last child of the node to

the end of the node. `between`: the symbols between the property and value for declarations, selector and `{` for rules, or last parameter and `{` for at-rules. `semicolon`: contains true if the last child has an (optional) semicolon. `afterName`: the space between the at-rule name and its parameters.

PostCSS cleans at-rule parameters from comments and extra spaces, but it stores origin content in raws properties. As such, if you don't change a declaration's value, PostCSS will use the raw value with comments.

```
@example
const root = postcss.parse('@media print {}')
root.first.first.raws
//=> { before: ' ',
      // between: '',
      // afterName: '\n',
      // after: '\n' }
export default AtRule;
/** Contains helpers for safely splitting lists of CSS values, preserving
```

```
parentheses and quotes.
@example
const list = postcss.list();
@namespace list
const list = {
  split(string, separators, last) {
    const array = [];
    let current = "";
    let split = false;
    let func = 0;
    let quote = false;
    let escape = false;
    for (let i = 0; i < string.length; i++) {
      const letter = string[i];
      if (quote) {
        if (escape) {
          escape = false;
        } else if (letter === '\\') {
          escape = true;
        }
      } else if (letter === quote) {
        quote = false;
      } else if (letter === '"' || letter === "'"') {
        quote = letter;
      } else if (letter === '(') {
        func += 1;
      } else if (letter === ')') {
        if (func > 0) func -= 1;
      } else if (func === 0) {
        if (separators.indexOf(letter) !== -1) split = true;
      }
      if (split) {
        if (current !== "") array.push(current.trim());
        current = "";
        split = false;
      } else {
        current += letter;
      }
    }
    if (last || current !== "") array.push(current.trim());
    return array;
  },
  /** Safely splits space-separated values (such as those for `background`, `border-radius`, and other shorthand properties).
  @param {string} string - space-separated values
  @return {string[]} splitted values
  @example
  postcss.list.space('1px calc(10% + 1px)') //=> ['1px', 'calc(10% + 1px)']
  space(string) {
    const spaces = [' ', '\n', '\t'];
    return list.split(string, spaces);
  },
  /** Safely splits comma-separated values (such as those for `transition` and `background` properties).
  @param {string} string - comma-separated values
  @return {string[]} splitted values
  @example
  postcss.list.comma('black, linear-gradient(white, black)')
  //=> ['black', 'linear-gradient(white, black)']
  comma(string) {
    const comma = ',';
    return list.split(string, [comma], true);
  },
};
export default list;
/** @flow
import './at-rule'; // break cyclical dependency deadlock - #87
import Container from './container';
import warnOnce from './warn-once';
import list from './list';
/** Represents a CSS rule: a selector followed by a declaration block.
@example
const root = postcss.parse('a {}');
const rule = root.first;
rule.type //=> 'rule'
rule.toString() //=> 'a {}'
class Rule extends Container {
  constructor(defaults) {
    super(defaults);
    this.type = 'rule';
    if (!this.nodes) this.nodes = [];
  }
  /** An array containing the rule's individual selectors.
  Groups of selectors are split at commas.
  @type {string[]}
  @example
  const root = postcss.parse('a, b {}');
  const rule = root.first;
  rule.selector //=> 'a, b'
  rule.selectors //=> ['a', 'b']
  rule.selectors = ['a', 'strong'];
  rule.selector //=> 'a, strong'
  get selectors() {
    return list.comma(this.selector);
  }
  set selectors(values) {
    const match = this.selector ? this.selector.match(/,\s*/) : null;
    const sep = match ? match[0] : ` ${this.raw('between', 'beforeOpen')}`;
    this.selector = values.join(sep);
  }
  get _selector() {
    warnOnce('Rule#_selector is deprecated. Use Rule#raws.selector');
    return this.raws.selector;
  }
  set _selector(val) {
    warnOnce('Rule#_selector is deprecated. Use Rule#raws.selector');
    this.raws.selector = val;
  }
  /** @memberof Rule#
  @member {string} selector - the rule's full selector represented as a string
  @example
  const root = postcss.parse('a, b {}');
  const rule = root.first;
  rule.selector //=> 'a, b'
  /** @memberof
```

```

Rule#
 * @member {object} raws - Information to generate byte-to-byte equal
 * node string as it was in the origin input.
 * Every parser saves its own properties,
 * but the default CSS parser uses:
 * `before`: the space symbols before the node. It also stores ` ` and ` ` symbols before the declaration (IE hack).
 * `after`: the space symbols after the last child of the node
 * to the end of the node.
 * `between`: the symbols between the property and value
 * for declarations, selector and `{` for rules, or last parameter
 * and `{` for at-rules.
 * `semicolon`: contains true if the last child has
 * an (optional) semicolon.
 * PostCSS cleans selectors from comments and extra spaces,
 * but it stores origin content in raws properties.
 * As such, if you don't change a declaration's value,
 * PostCSS will use the raw value with comments.
 * @example
 * const
 * root = postcss.parse('a { color:black}');
 * root.first.first.raws //=> { before: ' ', between: ' ', after: '\n' }
 *
 * @flow
 /**
 * Represents a plugin's warning. It can be created using { @link Node#warn}.
 * @example
 * if ( decl.important ) {
 *   decl.warn(result, 'Avoid !important', { word: '!important' });
 * }
 * @class Warning
 * @param {string} text - warning message
 * @param {Object} [opts] - warning options
 * @param {Node} opts.node - CSS node that caused the warning
 * @param {string} opts.word - word in CSS source that caused the warning
 * @param {number} opts.index - index in CSS node string that caused
 * the warning
 * @param {string} opts.plugin - name of the plugin that created
 * this warning. { @link Result#warn } fills
 * this property automatically.
 *
 * constructor(text, opts = {}) {
 *   /**
 *    * @member {string} - Type to filter warnings from
 *    * { @link Result#messages}. Always equal
 *    * to `warning`.
 *    * @example
 *    * const
 *    * nonWarning = result.messages.filter(i => i.type !== 'warning');
 *    * this.type = 'warning';
 *    *
 *    * @member {string} - The warning message.
 *    * @example
 *    * warning.text //=> 'Try to avoid !important'
 *    * this.text = text;
 *    *
 *    * if (opts.node && opts.node.source) {
 *    *   const pos =
 *    *   opts.node.positionBy(opts);
 *    *   /**
 *    *    * @member {number} - Line in the input file
 *    *    * with
 *    *    * this warning's source
 *    *    * @example
 *    *    * warning.line //=> 5
 *    *    * this.line = pos.line;
 *    *
 *    * @member {number} - Column in the input file
 *    * with this warning's source.
 *    *
 *    * @example
 *    * warning.column //=>
 *    * 6
 *    * this.column = pos.column;
 *    * }
 *    *
 *    * for (const opt in opts) this[opt] = opts[opt];
 *    * }
 *    *
 *    * /**
 *    * Returns a warning position and message.
 *    * @example
 *    * warning.toString() //=> 'postcss-lint:a.css:10:14:
 *    * Avoid !important'
 *    *
 *    * @return {string} warning position and message
 *    *
 *    * toString()
 *    * {
 *    *   if (this.node)
 *    *     return this.node.error(this.text, {
 *    *       plugin: this.plugin,
 *    *       index: this.index,
 *    *       word: this.word,
 *    *     }).message;
 *    *   else if (this.plugin)
 *    *     return `${this.plugin}: ${this.text}`;
 *    *   else
 *    *     return this.text;
 *    * }
 *    *
 *    * }
 *    *
 *    * /**
 *    * @memberof Warning#
 *    * @member {string} plugin - The name of the plugin that created
 *    *
 *    * it will fill this property automatically.
 *    *
 *    * this warning. When you call { @link Node#warn}
 *    * @example
 *    * warning.plugin //=> 'postcss-important'
 *    *
 *    * /**
 *    * @memberof Warning#
 *    *
 *    * @member {Node} node - Contains the CSS node that caused the warning.
 *    * @example
 *    *
 *    * warning.node.toString() //=> 'color: white !important'
 *    *
 *    * @flow
 *    * @typedef {object} Message
 *    * @property {string} type - message type
 *    *
 *    * @property {string} plugin - source PostCSS plugin name
 *    *
 *    * /**
 *    * Provides the result of the PostCSS transformations.
 *    *
 *    * A Result instance is returned by { @link LazyResult#then }
 *    * or { @link Root#toResult } methods.
 *    *
 *    * @example
 *    * postcss([cssnext]).process(css).then(function (result) {
 *    *   console.log(result.css);
 *    * });
 *    *
 *    * @example
 *    * var result2 = postcss.parse(css).toResult();
 *    *
 *    * @class Result
 *    *
 *    * @param {Processor} processor - processor used for this transformation.
 *    * @param {Root} root - Root node after all transformations.
 *    * @param {processOptions} opts - options from the { @link Processor#process }
 *    *
 *    * or { @link Root#toResult }
 *    *
 *    * constructor(processor, root, opts) {
 *    *   /**
 *    *
 *    * @member {Processor} - The Processor instance used
 *    *
 *    * for this transformation.
 *    *
 *    *

```

```

@example\n    * for ( let plugin of result.processor.plugins) {\n    * if ( plugin.postcssPlugin === 'postcss-bad' )
{\n    * throw 'postcss-good is incompatible with postcss-bad';\n    * }};\n    *\n    this.processor =
processor;\n    /**\n    * @member {Message[]} - Contains messages from plugins\n    * (e.g.,
warnings or custom messages).\n    * Each message should have type\n    * and plugin
properties.\n    *\n    * @example\n    * postcss.plugin('postcss-min-browser', () => {\n    * return (root, result)
=> {\n    * var browsers = detectMinBrowsersByCanIUse(root);\n    * result.messages.push({\n    * type:
'min-browser',\n    * plugin: 'postcss-min-browser',\n    * browsers: browsers\n    * });\n    * });\n    *\n    this.messages = [];\n    /**\n    * @member {Root} - Root node after all transformations.\n    *\n    * @example\n    * root.toResult().root == root;\n    *\n    this.root = root;\n    /**\n    * @member {processOptions} - Options from
the { @link Processor#process}\n    * or { @link Root#toResult} call\n    * that
produced this Result instance.\n    *\n    * @example\n    * root.toResult(opts).opts == opts;\n    *\n    this.opts =
opts;\n    /**\n    * @member {string} - A CSS string representing of { @link Result#root}.\n    *\n    *
@example\n    * postcss.parse('a{}').toResult().css //=> \"a{}\"\n    *\n    this.css = undefined;\n    /**\n    *
@member {SourceMapGenerator} - An instance of `SourceMapGenerator`\n    * class from the
`source-map`
library,\n    * representing changes\n    * to the { @link Result#root}
instance.\n    *\n    * @example\n    * result.map.toJSON() //=> { version: 3, file: 'a.css', ... }\n    *\n    *
@example\n    * if ( result.map ) {\n    * fs.writeFileSync(result.opts.to + '.map', result.map.toString());\n    * }\n    *\n    this.map = undefined;\n    }\n    /**\n    * Returns for @ {link Result#css} content.\n    *\n    * @example\n    *
result + " === result.css\n    *\n    * @return {string} string representing of { @link Result#root}\n    *\n    toString()
{\n    return this.css;\n    }\n    /**\n    * Creates an instance of { @link Warning} and adds it\n    * to { @link
Result#messages}.\n    *\n    * @param {string} text - warning message\n    * @param {Object} [opts] -
warning options\n    * @param {Node} opts.node - CSS node that caused the warning\n    * @param {string}
opts.word - word in CSS source that caused the warning\n    *
@param {number} opts.index - index in CSS node string that caused\n    * the warning\n    *\n    * @param {string} opts.plugin - name of the plugin that created\n    * this warning. { @link
Result#warn} fills\n    * this property automatically.\n    *\n    * @return {Warning} created
warning\n    *\n    warn(text, opts = {}) {\n    if (!opts.plugin) {\n    if (this.lastPlugin &&
this.lastPlugin.postcssPlugin) {\n    opts.plugin = this.lastPlugin.postcssPlugin;\n    }\n    }\n    const warning =
new Warning(text, opts);\n    this.messages.push(warning);\n    return warning;\n    }\n    /**\n    * Returns warnings
from plugins. Filters { @link Warning} instances\n    * from { @link Result#messages}.\n    *\n    * @example\n    *
result.warnings().forEach(warn => {\n    * console.warn(warn.toString());\n    * });\n    *\n    * @return {Warning[]}
warnings from plugins\n    *\n    warnings() {\n    return
this.messages.filter(i => i.type === 'warning');\n    }\n    /**\n    * An alias for the { @link Result#css} property.\n    *
Use it with syntaxes that generate non-CSS output.\n    * @type {string}\n    *\n    * @example\n    * result.css ===
result.content;\n    *\n    get content() {\n    return this.css;\n    }\n    }\n    }\n    export default Result;\n    }"/ @flow\n    import
stringify from './stringify';\n    import warnOnce from './warn-once';\n    import Result from './result';\n    import parse from
'./parse';\n    function isPromise(obj) {\n    return typeof obj === 'object' && typeof obj.then ===
'function';\n    }\n    /**\n    * @callback onFulfilled\n    * @param {Result} result\n    *\n    *\n    /**\n    * @callback onRejected\n    *
@param {Error} error\n    *\n    *\n    * A Promise proxy for the result of PostCSS transformations.\n    *\n    * A
`LazyResult` instance is returned by { @link Processor#process}.\n    *\n    * @example\n    * const lazy =
postcss([cssnext]).process(css);\n    *\n    class LazyResult {\n    constructor(processor, css, opts) {\n    this.stringified
= false;\n    this.processed = false;\n    let root;\n    if (typeof css === 'object' && css.type === 'root') {\n    root =
css;\n    } else if (css instanceof LazyResult || css instanceof Result) {\n    root = css.root;\n    if (css.map) {\n    if (typeof opts.map === 'undefined') opts.map = {};\n    if (!opts.map.inline) opts.map.inline = false;\n    opts.map.prev = css.map;\n    }\n    } else {\n    let parser = parse;\n    if (opts.syntax) parser =
opts.syntax.parse;\n    if (opts.parser) parser = opts.parser;\n    if (parser.parse) parser = parser.parse;\n    try

```

```

{\n    root = parser(css, opts);\n  } catch (error) {\n    this.error = error;\n  }\n}\n\n this.result = new
Result(processor, root, opts);\n }\n\n /**\n  * Returns a {@link Processor} instance, which will be used\n  * for
CSS transformations.\n  * @type {Processor}\n  */\n  get processor() {\n    return this.result.processor;\n  }\n\n
/**\n  * Options
  from the {@link Processor#process} call.\n  * @type {processOptions}\n  */\n  get opts() {\n    return
this.result.opts;\n  }\n\n /**\n  * Processes input CSS through synchronous plugins, converts `Root`\n  * to a CSS
string and returns {@link Result#css}.\n  * This property will only work with synchronous plugins.\n  * If the
processor contains any asynchronous plugins\n  * it will throw an error. This is why this method is only\n  * for
debug purpose, you should always use {@link LazyResult#then}.\n  * @type {string}\n  * @see Result#css\n
  */\n  get css() {\n    return this.stringify().css;\n  }\n\n /**\n  * An alias for the `css` property. Use it with
syntaxes\n  * that generate non-CSS output.\n  * This property will only work with synchronous plugins.\n  *
If the processor contains any asynchronous plugins\n  * it will throw an error. This is why this method is only\n
  * for debug purpose, you should always use {@link LazyResult#then}.\n
  *\n  * @type {string}\n  * @see Result#content\n  */\n  get content() {\n    return this.stringify().content;\n  }\n\n
/**\n  * Processes input CSS through synchronous plugins\n  * and returns {@link Result#map}.\n  * This
property will only work with synchronous plugins.\n  * If the processor contains any asynchronous plugins\n  * it
will throw an error. This is why this method is only\n  * for debug purpose, you should always use {@link
LazyResult#then}.\n  * @type {SourceMapGenerator}\n  * @see Result#map\n  */\n  get map() {\n    return
this.stringify().map;\n  }\n\n /**\n  * Processes input CSS through synchronous plugins\n  * and returns {@link
Result#root}.\n  * This property will only work with synchronous plugins. If the processor\n  * contains any
asynchronous plugins it will throw an error.\n  * This is why this method is only for debug purpose,\n  * you
should always use {@link LazyResult#then}.\n  * @type {Root}\n  * @see
Result#root\n  */\n  get root() {\n    return this.sync().root;\n  }\n\n /**\n  * Processes input CSS through
synchronous plugins\n  * and returns {@link Result#messages}.\n  * This property will only work with
synchronous plugins. If the processor\n  * contains any asynchronous plugins it will throw an error.\n  * This
is why this method is only for debug purpose,\n  * you should always use {@link LazyResult#then}.\n  * @type
{Message[]}\n  * @see Result#messages\n  */\n  get messages() {\n    return this.sync().messages;\n  }\n\n
/**\n  * Processes input CSS through synchronous plugins\n  * and calls {@link Result#warnings()}. \n  * @return
{Warning[]} warnings from plugins\n  */\n  warnings() {\n    return this.sync().warnings();\n  }\n\n /**\n
  * Alias for the {@link LazyResult#css} property.\n  * @example\n  * lazy + " === lazy.css;\n  * @return
{string} output CSS\n  */\n  toString() {\n    return this.css;\n  }\n\n /**\n
  * Processes input CSS through synchronous and asynchronous plugins\n  * and calls `onFulfilled` with a Result
instance. If a plugin throws\n  * an error, the `onRejected` callback will be executed.\n  * It implements
standard Promise API.\n  * @param {onFulfilled} onFulfilled - callback will be executed\n  *
  when all plugins will finish work\n  * @param {onRejected} onRejected - callback will be executed on any
error\n  * @return {Promise} Promise API to make queue\n  * @example\n  *
  postcss([cssnext]).process(css).then(result => {\n  *   console.log(result.css);\n  * });\n  * then(onFulfilled,
onRejected) {\n  *   return this.async().then(onFulfilled, onRejected);\n  * }\n\n /**\n  * Processes input CSS through
synchronous and asynchronous plugins\n  * and calls onRejected for each error thrown in any plugin.\n  * It
implements standard Promise API.\n  * @param {onRejected} onRejected - callback
  will be executed on any error\n  * @return {Promise} Promise API to make queue\n  * @example\n  *
  postcss([cssnext]).process(css).then(result => {\n  *   console.log(result.css);\n  * }).catch(error => {\n  *
  console.error(error);\n  * });\n  * catch(onRejected) {\n  *   return this.async().catch(onRejected);\n  * }\n\n
  handleError(error, plugin) {\n  *   try {\n  *     this.error = error;\n  *     if (error.name === 'CssSyntaxError' &&
!error.plugin) {\n  *       error.plugin = plugin.postcssPlugin;\n  *       error.setMessage();\n  *     } else if
(plugin.postcssVersion) {\n  *       const pluginName = plugin.postcssPlugin;\n  *       const pluginVer =
plugin.postcssVersion;\n  *       const runtimeVer = this.result.processor.version;\n  *       const a = pluginVer.split('.');\n
  *       const b = runtimeVer.split('.');\n  *       if (a[0] !== b[0] || parseInt(a[1]) > parseInt(b[1])) {\n  *
  warnOnce(\n

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```

    `>${Your current PostCSS version ' + 'is '}${runtimeVer},
    but ${pluginName} ` + \n      `uses ${pluginVer}. Perhaps this is ` + \n      `the source of the error
    below.\n      );\n      }\n      } catch (err) {\n      if (console && console.error) console.error(err);\n      }\n      }\n      asyncTick(resolve, reject) {\n      if (this.plugin >= this.processor.plugins.length) {\n      this.processed = true;\n      return resolve();\n      }\n      try {\n      const plugin = this.processor.plugins[this.plugin];\n      const promise =
    this.run(plugin);\n      this.plugin += 1;\n      if (isPromise(promise)) {\n      promise\n      .then(() => {\n
    this.asyncTick(resolve, reject);\n      })\n      .catch(error => {\n      this.handleError(error, plugin);\n
    this.processed = true;\n      reject(error);\n      });\n      } else {\n      this.asyncTick(resolve, reject);\n      }\n
    } catch (error) {\n      this.processed = true;\n      reject(error);\n      }\n      }\n      async() {\n
    if (this.processed) {\n      return new Promise((resolve, reject) => {\n      if (this.error) {\n
    reject(this.error);\n      } else {\n      resolve(this.stringify());\n      }\n      });\n      }\n      if (this.processing) {\n
    return this.processing;\n      }\n      this.processing = new Promise((resolve, reject) => {\n      if (this.error) return
    reject(this.error);\n      this.plugin = 0;\n      this.asyncTick(resolve, reject);\n      }).then(() => {\n      this.processed =
    true;\n      return this.stringify();\n      });\n      return this.processing;\n      }\n      }\n      sync() {\n      if (this.processed) return
    this.result;\n      this.processed = true;\n      if (this.processing) {\n      throw new Error('Use process(css).then(cb) to
    work with async plugins');\n      }\n      if (this.error) throw this.error;\n      }\n      this.result.processor.plugins.forEach(plugin => {\n      const promise = this.run(plugin);\n      if (isPromise(promise))
    {\n      throw new Error('Use process(css).then(cb)
    to work with async plugins');\n      }\n      });\n      return this.result;\n      }\n      run(plugin) {\n      this.result.lastPlugin =
    plugin;\n      try {\n      return plugin(this.result.root, this.result);\n      } catch (error) {\n      this.handleError(error,
    plugin);\n      throw error;\n      }\n      }\n      stringify() {\n      if (this.stringified) return this.result;\n      this.stringified =
    true;\n      this.sync();\n      const opts = this.result.opts;\n      let str = stringify;\n      if (opts.syntax) str =
    opts.syntax.stringify;\n      if (opts.stringifier) str = opts.stringifier;\n      if (str.stringify) str = str.stringify;\n      let
    result = "";\n      str(this.root, i => {\n      result += i;\n      });\n      this.result.css = result;\n      return this.result;\n
    }\n      }\n      export default LazyResult;\n      ", // @flow\n      import LazyResult from './lazy-result';\n      /**\n      * @callback
    builder\n      * @param {string} part - part of generated CSS connected to this node\n      * @param {Node}
    node - AST node\n      * @param {"start"|"end"} [type] - node's part type\n      * @param {function} parser\n      * @param {string|toString} css - string with input CSS or any object\n      * @param {function} stringifier
    with toString()
    method, like a Buffer\n      * @param {processOptions} [opts] - options with only `from` and `map` keys\n      *
    @return {Root} PostCSS AST\n      * @param {function} stringifier\n      * @param {Node} node - start node
    for stringifying. Usually { @link Root }.\n      * @param {builder} builder - function to concatenate CSS from node's
    parts\n      * @param {function} parse or generate string and source map\n      * @return {void}\n      * @typedef
    {object} syntax\n      * @property {parser} parse - function to generate AST by string\n      * @property {stringifier}
    stringifier - function to generate string by AST\n      * @typedef {object} toString\n      * @property {function}
    toString\n      * @callback pluginFunction\n      * @param {Root} root
    - parsed input CSS\n      * @param {Result} result - result to set warnings or check other plugins\n      * @typedef
    {object} Plugin\n      * @property {function} postcss - PostCSS plugin function\n      * @typedef
    {object} processOptions\n      * @property {string} from - the path of the CSS source file.\n      *
    You should always set `from`,\n      * because it is used in source map\n      * generation and syntax error messages.\n      * @property {string} to - the path where you'll put the
    output\n      * CSS file. You should always set `to`\n      * to generate
    correct source maps.\n      * @property {parser} parser - function to generate AST by string\n      * @property
    {stringifier} stringifier - class to generate string by AST\n      * @property {syntax} syntax - object with `parse`
    and `stringify`\n      * @property {object} map - source map options\n      * @property {boolean} map.inline - does
    source map should\n      * be embedded in the output\n      * CSS as a base64-encoded\n      * comment\n      * @property
    {string|object|false|function} map.prev - source map content\n      * from a previous\n      *

```



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removeChild(child) {\n  child = this.index(child);\n\n  if (child === 0 && this.nodes.length > 1) {\n
this.nodes[1].rows.before = this.nodes[child].rows.before;\n  }\n\n  return super.removeChild(child);\n }\n\n
normalize(child, sample, type) {\n  const nodes = super.normalize(child);\n\n  if (sample) {\n    if (type ===
'prepend') {\n      if (this.nodes.length > 1) {\n        sample.rows.before = this.nodes[1].rows.before;\n      } else
{\n        delete sample.rows.before;\n      }\n    } else if (this.first !== sample) {\n      nodes.forEach(node => {\n
node.rows.before = sample.rows.before;\n      });\n    }\n  }\n\n  return nodes;\n }\n\n /**\n * Returns a
{@link Result} instance representing the root's CSS.\n * @param {processOptions} [opts] - options with
only `to` and `map` keys\n * @return {Result} result with current root's CSS\n * @example\n * const
root1 = postcss.parse(css1, { from: 'a.css'
});\n * const root2 = postcss.parse(css2, { from: 'b.css' });\n * root1.append(root2);\n * const result =
root1.toResult({ to: 'all.css', map: true });\n * ^\n toResult(opts = {}) {\n  const lazy = new LazyResult(new
Processor(), this, opts);\n  return lazy.stringify();\n }\n\n remove(child) {\n  warnOnce('Root#remove is
deprecated. Use Root#removeChild');\n  this.removeChild(child);\n }\n\n prevMap() {\n
warnOnce('Root#prevMap is deprecated. Use Root#source.input.map');\n  return this.source.input.map;\n }\n\n
/**\n * @memberof Root#\n * @member {object} rows - Information to generate byte-to-byte equal\n *
node string as it was in the origin input.\n * @example\n * Every parser saves its own properties,\n * but the default
CSS parser uses:\n * * `after`: the space symbols after the last child to the end of file.\n * * `semicolon`: is
the last child has an (optional) semicolon.\n * @example\n * postcss.parse('a
{\n\n}.rows //=> { after: '\n' }\n * postcss.parse('a {').rows //=> { after: " }\n * ^\n\n}export default
Root;\n", "// @flow\nimport './root'; // break cyclical dependency deadlock - #87\n\nimport CssSyntaxError from
 './css-syntax-error';\n// import PreviousMap from './previous-map';\n\nlet sequence = 0;\n\n/**\n * @typedef
{object} filePosition\n * @property {string} file - path to file\n * @property {number} line - source line in file\n
* @property {number} column - source column in file\n * ^\n\n/**\n * Represents the source CSS.\n * ^\n
* @example\n * const root = postcss.parse(css, { from: file });\n * const input = root.source.input;\n * ^\n\nclass Input
{\n /**\n * @param {string} css - input CSS source\n * @param {object} [opts] - {@link Processor#process}
options\n * ^\n constructor(css, opts = {}) {\n /**\n * @member {string} - input CSS source\n * ^\n
* @example\n * const input = postcss.parse('a {', { from: file }).input;\n *
input.css //=> "a{"};\n * ^\n this.css = css.toString();\n\n if (this.css[0] === "\uFEFF" || this.css[0] ===
"\uFFFE") {\n  this.css = this.css.slice(1);\n }\n\n if (opts.from) {\n  if (/^\w+:\|\/\|.test(opts.from)) {\n
/**\n * @member {string} - The absolute path to the CSS source file\n * defined with the
`from` option.\n * ^\n * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n *
root.source.input.file //=> '/home/ai/a.css'\n * ^\n this.file = opts.from;\n } else {\n  this.file =
path.resolve(opts.from);\n }\n }\n\n /**\n  let map = new PreviousMap(this.css, opts);\n  if ( map.text )
{\n    /**\n * @member {PreviousMap} - The input source map passed from\n *
a compilation step before PostCSS\n * (for example, from Sass compiler).\n * ^\n
* @example\n * root.source.input.map.consumer().sources //=> ['a.sass']\n * ^\n
this.map = map;\n  let file = map.consumer().file;\n  if ( !this.file && file ) this.file =
this.mapResolve(file);\n }\n\n if (!this.file) {\n  sequence += 1;\n /**\n * @member {string} -
The unique ID of the CSS source. It will be\n * created if `from` option is not provided\n *
(because PostCSS does not know the file path).\n * ^\n * @example\n * const root =
postcss.parse(css);\n * root.source.input.file //=> undefined\n * root.source.input.id //=> "<input css 1>\n
* ^\n this.id = `<input css ${sequence}>`; }\n }\n\n if (this.map) this.map.file = this.from;\n }\n\n
error(message, line, column, opts = {}) {\n  let result;\n  const origin = this.origin(line, column);\n  if (origin) {\n
result
= new CssSyntaxError(\n    message,\n    origin.line,\n    origin.column,\n    origin.source,\n
origin.file,\n    opts.plugin\n  );\n } else {\n  result = new CssSyntaxError(message, line, column, this.css,
this.file, opts.plugin);\n }\n\n result.input = { line, column, source: this.css }; \n  if (this.file) result.input.file =
this.file;\n\n  return result;\n }\n\n /**\n * Reads the input source map and returns a symbol position\n * in the

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input source (e.g., in a Sass file that was compiled
 * to CSS before being passed to PostCSS).\n *
 * @param
 {number} line - line in input CSS\n *
 * @param {number} column - column in input CSS\n *
 * @return
 {filePosition} position in input source\n *
 * @example\n * root.source.input.origin(1, 1) //=> { file: 'a.css',
line: 3, column: 1 }\n *
 * ^\n origin(line, column) {\n if (!this.map) return false;\n const consumer =
this.map.consumer();\n const from =
consumer.originalPositionFor({ line, column });\n if (!from.source) return false;\n\n const result = {\n file:
this.map.resolve(from.source),\n line: from.line,\n column: from.column,\n };\n\n const source =
consumer.sourceContentFor(from.source);\n if (source) result.source = source;\n return result;\n }\n\n
mapResolve(file) {\n if (/^\w+:\|\/\|\.test(file)) {\n return file;\n } else {\n return
path.resolve(this.map.consumer().sourceRoot || '.', file);\n }\n }\n\n /**\n * The CSS source identifier. Contains
{@link Input#file} if the user\n * set the `from` option, or {@link Input#id} if they did not.\n *
 * @type {string}\n *
 * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n * root.source.input.from //=>
"/home/ai/a.css"\n *
 * const root = postcss.parse(css);\n * root.source.input.from //=> "<input css 1>"\n *
 * ^\n get from() {\n return this.file || this.id;\n }\n }\n\nexport default
Input;\n", // @flow\nimport tokenize from './postcss/tokenize';\nimport Comment from
'./postcss/comment';\nimport Parser from './postcss/parser';\n\nexport default class SafeParser extends Parser {\n
tokenize() {\n this.tokens = tokenize(this.input, { ignoreErrors: true });\n }\n\n comment(token) {\n const node
= new Comment();\n this.init(node, token[2], token[3]);\n node.source.end = { line: token[4], column: token[5]
};\n\n let text = token[1].slice(2);\n if (text.slice(-2) === '*/') text = text.slice(0, -2);\n\n if (/^\s*$/\.test(text))
{\n node.text = "";\n node.raws.left = text;\n node.raws.right = "";\n } else {\n const match =
text.match(/^(\\s*)([^\s]*[^\s])((\\s*)$/);\n node.text = match[2];\n node.raws.left = match[1];\n
node.raws.right = match[3];\n }\n }\n\n unclosedBracket() {\n\n unknownWord(start) {\n const buffer =
this.tokens.slice(start, this.pos + 1);\n this.spaces += buffer.map(i => i[1]).join("");\n
}\n\n unexpectedClose() {\n this.current.raws.after += ' ';\n }\n\n doubleColon() {\n\n unnamedAttrule(node)
{\n node.name = "";\n }\n\n precheckMissedSemicolon(tokens) {\n const colon = this.colon(tokens);\n if
(colon === false) return;\n\n let split;\n for (split = colon - 1; split >= 0; split--) {\n if (tokens[split][0] ===
'word') break;\n }\n for (split = 1; split >= 0; split--) {\n if (tokens[split][0] !== 'space') {\n split += 1;\n
break;\n }\n }\n const other = tokens.splice(split, tokens.length - split);\n this.decl(other);\n }\n\n
checkMissedSemicolon() {\n\n endFile() {\n if (this.current.nodes && this.current.nodes.length) {\n
this.current.raws.semicolon = this.semicolon;\n }\n this.current.raws.after = (this.current.raws.after || "") +
this.spaces;\n\n while (this.current.parent) {\n this.current = this.current.parent;\n this.current.raws.after =
"";\n }\n }\n }\n\n", // @flow\nimport Input from './postcss/input';\nimport SafeParser from './safe-parser';\n\nexport default
function safeParse(css, opts) {\n const input = new Input(css, opts);\n const parser = new SafeParser(input);\n
parser.tokenize();\n parser.loop();\n return parser.root;\n }\n", // @flow\n/* eslint-disable import/no-unresolved
*/\nimport transformDeclPairs from 'css-to-react-native';\nimport generateComponentId from
'./utils/generateComponentId';\nimport type { RuleSet, StyleSheet } from './types';\nimport flatten from
'./utils/flatten';\n\n $FlowFixMe\nimport parse from './vendor/postcss-safe-parser/parse';\n\nlet generated =
{};\n\nexport const resetStyleCache = () => {\n generated = {};\n};\n\n/*\n * InlineStyle takes arbitrary CSS and
generates a flat object\n *
 * ^\nexport default (styleSheet: StyleSheet) => {\n class InlineStyle {\n rules: RuleSet;\n\n
constructor(rules: RuleSet) {\n this.rules = rules;\n }\n\n generateStyleObject(executionContext:
Object) {\n const flatCSS = flatten(this.rules, executionContext).join("");\n const hash =
generateComponentId(flatCSS);\n if (!generated[hash]) {\n const root = parse(flatCSS);\n const
declPairs = [];\n root.each(node => {\n if (node.type === 'decl') {\n declPairs.push([node.prop,
node.value]);\n } else if (process.env.NODE_ENV !== 'production' && node.type !== 'comment') {\n
/* eslint-disable no-console */\n console.warn(`Node of type ${node.type} not supported as an inline
style`);\n }\n });\n // RN currently does not support differing values for the corner radii of Image\n
// components (but does for View). It is almost impossible to tell whether we'll have\n // support, so we'll just

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outerTheme,\n ]);\n\n if (!props.children) {\n   return null;\n }\n\n return <ThemeContext.Provider
value={themeContext}>{props.children}</ThemeContext.Provider>;\n}\n\n", "// @flow\n\nimport React, {
createElement, Component } from
'react';\n\nimport hoist from 'hoist-non-react-statics';\n\nimport merge from './utils/mixinDeep';\n\nimport
determineTheme from './utils/determineTheme';\n\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from
'./utils/empties';\n\nimport generateDisplayName from './utils/generateDisplayName';\n\nimport isFunction from
'./utils/isFunction';\n\nimport isTag from './utils/isTag';\n\nimport isStyledComponent from
'./utils/isStyledComponent';\n\nimport { ThemeConsumer } from './ThemeProvider';\n\n\nimport type { Theme } from
'./ThemeProvider';\n\nimport type { Attrs, RuleSet, Target } from './types';\n\n\n// NOTE: no hooks available for react-
native yet;\n\n// if the user makes use of ThemeProvider or StyleSheetManager things will break.\n\n\n// Validator
defaults to true if not in HTML/DOM env\n\nconst validAttr = () => true;\n\n\nclass StyledNativeComponent extends
Component<*, *> {\n  root: ?Object;\n\n  attrs = {};\n\n  render() {\n    return (\n      <ThemeConsumer>\n      {\n        (theme?: Theme) => {\n          const {\n            $as: transientAsProp,\n            as: renderAs,\n            forwardedComponent,\n            forwardedAs,\n            forwardedRef,\n            testID,\n            style = [],\n            ...props\n          } = this.props;\n\n          const {\n            defaultProps, target, shouldForwardProp } = forwardedComponent;\n\n          const elementToBeRendered =\n            this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;\n\n          const generatedStyles =
            this.generateAndInjectStyles(\n              determineTheme(this.props, theme, defaultProps) || EMPTY_OBJECT,\n              this.props\n            );\n\n          const isTargetTag = isTag(elementToBeRendered);\n\n          const computedProps =
            this.attrs !== props ? { ...props, ...this.attrs } : props;\n\n          const propFilterFn = shouldForwardProp || (isTargetTag
            && validAttr);\n\n          const propsForElement = {};\n\n          for (key in computedProps) {\n
            if (key[0] ===
              '$' || key === 'as') continue;\n\n            else if (key === 'forwardedAs') {\n              propsForElement.as =
              props[key];\n            } else if (!propFilterFn || propFilterFn(key, validAttr)) {\n              // Don't pass through filtered
              tags through to native elements\n              propsForElement[key] = computedProps[key];\n            }\n          }\n\n          propsForElement.style = typeof style === 'function' ?\n            (state) => {\n              return
              [generatedStyles].concat(style(state))\n            } : [generatedStyles].concat(style);\n\n          propsForElement.testID = testID || propsForElement.testID;\n\n          if (forwardedRef) propsForElement.ref =
            forwardedRef;\n\n          if (forwardedAs) propsForElement.as = forwardedAs;\n\n          return
            createElement(elementToBeRendered, propsForElement);\n        }\n      } </ThemeConsumer>\n    );\n  }\n\n  buildExecutionContext(theme: ?Object, props: Object, attrs: Attrs) {\n    const context = { ...props,
    theme };\n\n    if (!attrs.length) return context;\n\n    this.attrs = {};\n\n    attrs.forEach(attrDef => {\n      let
      resolvedAttrDef = attrDef;\n      let attr;\n      let key;\n\n      if (isFunction(resolvedAttrDef)) {\n
        resolvedAttrDef = resolvedAttrDef(context);\n      }\n\n      /* eslint-disable guard-for-in */\n      for (key in
        resolvedAttrDef) {\n        attr = resolvedAttrDef[key];\n        this.attrs[key] = attr;\n        context[key] = attr;\n      }\n
      /* eslint-enable */\n    });\n\n    return context;\n  }\n\n  generateAndInjectStyles(theme: any, props: any) {\n
    const { inlineStyle } = props.forwardedComponent;\n\n    const executionContext = this.buildExecutionContext(\n      theme,\n      props,\n      props.forwardedComponent.attrs\n    );\n\n    return
    inlineStyle.generateStyleObject(executionContext);\n  }\n\n  setNativeProps(nativeProps: Object) {\n    if (this.root
    !== undefined) {\n      // $FlowFixMe\n      this.root.setNativeProps(nativeProps);\n    }\n\n    } else if (process.env.NODE_ENV !== 'production') {\n      // eslint-disable-next-line no-console\n
      console.warn(\n        'setNativeProps was called on a Styled Component wrapping a stateless functional
        component.\n      );\n    }\n  }\n}\n\nexport default (InlineStyle: Function) => {\n  const
  createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {\n    const {\n      attrs =
      EMPTY_ARRAY,\n      displayName = generateDisplayName(target),\n      ParentComponent =
      StyledNativeComponent,\n    } = options;\n\n    const isClass = !isTag(target);\n    const isTargetStyledComp =
    isStyledComponent(target);\n\n    // $FlowFixMe\n    const WrappedStyledNativeComponent =
    React.forwardRef((props, ref) => (\n      <ParentComponent\n        {...props}\n

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forwardedComponent={ WrappedStyledNativeComponent }\n    forwardedRef={ref}\n    />\n ));\n\n const
finalAttrs =\n    // $FlowFixMe\n    isTargetStyledComp && target.attrs\n    ?
Array.prototype.concat(target.attrs,
    attrs).filter(Boolean)\n    : attrs;\n\n // eslint-disable-next-line prefer-destructuring\n let shouldForwardProp =
options.shouldForwardProp;\n\n // $FlowFixMe\n if (isTargetStyledComp && target.shouldForwardProp) {\n
if (shouldForwardProp) {\n    // compose nested shouldForwardProp calls\n    shouldForwardProp = (prop,
filterFn, elementToBeCreated) =>\n        // $FlowFixMe\n        target.shouldForwardProp(prop, filterFn,
elementToBeCreated) &&\n        options.shouldForwardProp(prop, filterFn, elementToBeCreated);\n    } else {\n
// eslint-disable-next-line prefer-destructuring\n    shouldForwardProp = target.shouldForwardProp;\n    }\n
}\n\n /**\n * forwardRef creates a new interim component, which we'll take advantage of\n * instead of
extending ParentComponent to create _another_ interim class\n */\n // $FlowFixMe\n
WrappedStyledNativeComponent.attrs = finalAttrs;\n\n
WrappedStyledNativeComponent.displayName = displayName;\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.shouldForwardProp = shouldForwardProp;\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.inlineStyle = new InlineStyle(\n    // $FlowFixMe\n    isTargetStyledComp ?
target.inlineStyle.rules.concat(rules) : rules\n );\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.styledComponentId = 'StyledNativeComponent';\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.target = isTargetStyledComp\n    ? // $FlowFixMe\n    target.target\n    :
target;\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.withComponent = function withComponent(tag:
Target) {\n    const { displayName: _, componentId: __, ...optionsToCopy } = options;\n    const newOptions =
{\n        ...optionsToCopy,\n        attrs: finalAttrs,\n        ParentComponent,\n    };\n\n    return
createStyledNativeComponent(tag, newOptions, rules);\n    };\n\n // $FlowFixMe\n
Object.defineProperty(WrappedStyledNativeComponent,
'defaultProps', {\n    get() {\n        return this._foldedDefaultProps;\n    },\n\n    set(obj) {\n        // $FlowFixMe\n
this._foldedDefaultProps = isTargetStyledComp ? merge({}, target.defaultProps, obj) : obj;\n    },\n});\n\n
if (isClass) {\n    hoist(WrappedStyledNativeComponent, (target: any), {\n        // all SC-specific things should not
be hoisted\n        attrs: true,\n        displayName: true,\n        shouldForwardProp: true,\n        inlineStyle: true,\n
styledComponentId: true,\n        target: true,\n        withComponent: true,\n    });\n}\n\n return
WrappedStyledNativeComponent;\n};\n\n return createStyledNativeComponent;\n};\n\n", "// @flow\nimport type {
Interpolation } from './types';\n\nexport default (\n    strings: Array<string>,\n    interpolations:
Array<Interpolation>):\n    Array<Interpolation> => {\n        const result = [strings[0]];\n\n        for (let i = 0, len =
interpolations.length;\n            i < len; i += 1) {\n            result.push(interpolations[i], strings[i + 1]);\n        }\n\n        return result;\n    };\n\n", "// @flow\nimport
interleave from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport { EMPTY_ARRAY }
from './utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from './utils/flatten';\nimport
type { Interpolation, RuleSet, Styles } from './types';\n\n/**\n * Used when flattening object styles to determine if
we should\n * expand an array of styles.\n */\nconst addTag = arg => {\n    if (Array.isArray(arg)) {\n        // eslint-
disable-next-line no-param-reassign\n        arg.isCss = true;\n    }\n\n    return arg;\n};\n\nexport default function css(styles:
Styles, ...interpolations: Array<Interpolation>): RuleSet {\n    if (isFunction(styles) || isPlainObject(styles)) {\n        //
$FlowFixMe\n        return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n    }\n\n    if
(interpolations.length === 0 && styles.length === 1 &&
typeof styles[0] === 'string') {\n        // $FlowFixMe\n        return styles;\n    }\n\n    // $FlowFixMe\n    return
addTag(flatten(interleave(styles, interpolations)));\n}\n\n", "// @flow\nimport { isValidElementType } from 'react-
is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport { EMPTY_OBJECT } from
'./utils/empties';\n\nimport type { Target } from './types';\n\nexport default function constructWithOptions(\n    componentConstructor: Function,\n    tag: Target,\n    options: Object = EMPTY_OBJECT)\n    {\n        if
(!isValidElementType(tag)) {\n            return throwStyledError(1, String(tag));\n        }\n\n        /* This is callable directly as a
template function */\n        // $FlowFixMe: Not typed to avoid destructuring arguments\n        const templateFunction =

```

```

(...args) => componentConstructor(tag, options, css(...args));\n\n /* If config methods are called, wrap up a new
template function and merge options */\n templateFunction.withConfig = config =>\n
constructWithOptions(componentConstructor,
tag, { ...options, ...config });\n\n /* Modify/inject new props at runtime */\n templateFunction.attrs = attrs =>\n
constructWithOptions(componentConstructor, tag, {\n  ...options,\n  attrs: Array.prototype.concat(options.attrs,
attrs).filter(Boolean),\n });\n\n return templateFunction;\n};\n\n", "// @flow\nimport React, { useContext, type
AbstractComponent } from 'react';\nimport hoistStatics from 'hoist-non-react-statics';\nimport { ThemeContext }
from './models/ThemeProvider';\nimport determineTheme from './utils/determineTheme';\nimport
getComponentName from './utils/getComponentName';\n\n// NOTE: this would be the correct signature:\n// export
default <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):
AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n// but the old build system
tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n //
$FlowFixMe
This should be React.forwardRef<Config, Instance>\n const WithTheme = React.forwardRef((props, ref) => {\n
const theme = useContext(ThemeContext);\n // $FlowFixMe defaultProps isn't declared so it can be inferrable\n
const { defaultProps } = Component;\n const themeProp = determineTheme(props, theme, defaultProps);\n\n if
(process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n // eslint-disable-next-line no-
console\n console.warn(\n `withTheme] You are not using a ThemeProvider nor passing a theme prop or a
theme in defaultProps in component class `\"${getComponentName(\n Component\n )}\"`\n );\n }\n\n
return <Component {...props} theme={themeProp} ref={ref} />;\n });\n\n hoistStatics(WithTheme,
Component);\n\n WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;\n\n return
WithTheme;\n};\n\n", "// @flow\nimport { useContext } from 'react';\nimport { ThemeContext } from
'./models/ThemeProvider';\n\nconst
useTheme = () => useContext(ThemeContext);\n\nexport default useTheme;\n\n", "// @flow\n\n/* eslint-disable
import/no-unresolved */\nimport reactPrimitives from 'react-primitives';\nimport _InlineStyle from
'./models/InlineStyle';\nimport _StyledNativeComponent from './models/StyledNativeComponent';\nimport css
from './constructors/css';\nimport constructWithOptions from './constructors/constructWithOptions';\nimport
ThemeProvider, { ThemeConsumer, ThemeContext } from './models/ThemeProvider';\nimport withTheme from
'./hoc/withTheme';\nimport useTheme from './hooks/useTheme';\nimport isStyledComponent from
'./utils/isStyledComponent';\nimport type { Target } from './types';\n\nconst InlineStyle =
_InlineStyle(reactPrimitives.StyleSheet);\nconst StyledNativeComponent =
_StyledNativeComponent(InlineStyle);\nconst styled = (tag: Target) =>
constructWithOptions(StyledNativeComponent, tag);\n\n/* React native lazy-requires each of these modules for
some reason,
so let's\n * assume it's for a good reason and not eagerly load them all */\nconst aliases = 'Image Text Touchable
View ';\n\n/* Define a getter for each alias which simply gets the reactNative component\n * and passes it to styled
*/\naliases.split(/\\s+/m).forEach(alias =>\n Object.defineProperty(styled, alias, {\n enumerable: true,\n
configurable: false,\n get() {\n return styled(reactPrimitives[alias]);\n },\n }));\n\n\nexport { css,
isStyledComponent, ThemeProvider, ThemeConsumer, ThemeContext, withTheme, useTheme };\nexport default
styled;\n\n"], "names":["AD_REPLACER_R", "charsLength", "getAlphabeticChar", "code", "String", "fromCharCode", "g
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```

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@flow\nimport type { Interpolation } from './types';\n\nexport default (\n  strings: Array<string>,\n  interpolations: Array<Interpolation>\n): Array<Interpolation> => {\n  const result = [strings[0]];\n  for (let i = 0, len = interpolations.length; i < len; i += 1) {\n    result.push(interpolations[i], strings[i + 1]);\n  }\n  return result;\n};\n\n// @flow\nimport { typeOf } from 'react-is';\n\nexport default (x: any): boolean => {\n  x !== null &&\n  typeof x === 'object' &&\n  (x.toString ? x.toString() : Object.prototype.toString.call(x)) === '[object Object]' &&\n  !typeof(x);\n};\n\n// @flow\nexport const EMPTY_ARRAY = Object.freeze([]);\nexport const EMPTY_OBJECT = Object.freeze({});\n\n// @flow\nexport default function isFunction(test: any): boolean %checks {\n  return typeof test === 'function';\n};\n\n// @flow\nimport type { IStyledComponent } from './types';\n\nexport default function getComponentName(\n  target: $PropertyType<IStyledComponent, 'target'>\n): string {\n  return (\n    (process.env.NODE_ENV !== 'production' ? typeof target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  );\n};\n\n// @flow\nexport default function isStyledComponent(\n  any): boolean %checks {\n  return target && typeof target.styledComponentId === 'string';\n};\n\n// @flow\n\nexport declare var SC_DISABLE_SPEEDY: ?boolean;\nexport declare var __VERSION__: string;\n\nexport const SC_ATTR: string = (\n  (typeof process !== 'undefined' &&\n  typeof process.env !== 'undefined' &&\n  (process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n  'data-styled'\n);\n\nexport const SC_ATTR_ACTIVE = 'active';\nexport const SC_ATTR_VERSION = 'data-styled-version';\nexport const SC_VERSION = __VERSION__;\nexport const SPLITTER = '/*!sc*/';\nexport const IS_BROWSER = typeof window !== 'undefined' && 'HTMLElement' in window;\nexport const DISABLE_SPEEDY = Boolean(\n  typeof SC_DISABLE_SPEEDY === 'boolean'\n  ? SC_DISABLE_SPEEDY\n  : typeof process !== 'undefined' &&\n  typeof process.env !== 'undefined'\n  ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'\n  &&\n  process.env.REACT_APP_SC_DISABLE_SPEEDY !== '\n  ?\n  process.env.REACT_APP_SC_DISABLE_SPEEDY\n  : process.env.REACT_APP_SC_DISABLE_SPEEDY\n  : typeof process.env.SC_DISABLE_SPEEDY !== 'undefined' &&\n  process.env.SC_DISABLE_SPEEDY !== '\n  ?\n  process.env.SC_DISABLE_SPEEDY === 'false'\n  ? false\n  : process.env.SC_DISABLE_SPEEDY\n  : process.env.NODE_ENV !== 'production'\n  ? false\n  : false\n); // Shared empty execution context when generating static styles\n\nexport const STATIC_EXECUTION_CONTEXT = {};\n\n// @flow\nimport errorMap from './errors';\n\nconst ERRORS = process.env.NODE_ENV !== 'production' ? errorMap : {};\n\n/**\n * super basic version of sprintf\n *\nfunction format(...args) {\n  let a = args[0];\n  const b = [];\n  for (let c = 1, len = args.length; c < len; c += 1) {\n    b.push(args[c]);\n  }\n  b.forEach(d => {\n    a = a.replace(/%[a-z]/, d);\n  });\n  return a;\n}\n\n/**\n * Create an error file out of errors.md for development and a simple web link to the full errors\n\n * in production mode.\n *\nexport default function throwStyledComponentsError(\n  code: string | number,\n  ...interpolations: Array<any>\n) {\n  if (process.env.NODE_ENV === 'production') {\n    throw new Error(\n      `An error occurred. See https://git.io/JUIaE#${code} for more information.`,\n      { interpolations.length > 0 ? ` Args: ${interpolations.join(', ')} : "${interpolations[0]}";\n    } else {\n      throw new Error(format(ERRORS[code], ...interpolations).trim());\n    }\n  }\n  export default {\n    "1": "Cannot create styled-component for component: %s.",\n    "2": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n\n- Are you accidentally calling collectStyles twice?",\n    "3": "Streaming SSR is only supported in a Node.js environment;
```

Please do not try to call this method in the browser.

Does this error occur on the client and is your target falsy?

Does this error occur on the server and is the sheet falsy?

The clone method cannot be used on the client!

Are you running in a client-like environment on the server?

Are you trying to run SSR on the client?

Trying to insert a new style tag, but the given Node is unmounted!

Are you using a custom target that isn't mounted?

Does your document not have a valid head element?

Have you accidentally removed a style tag manually?

ThemeProvider: Please return an object from your "theme" prop function, e.g. `js\ntHEME={ () => ({}) }`

ThemeProvider: Please make your "theme" prop an object.

Missing document <head>

Cannot find a StyleSheet instance. Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases where this situation can happen: <https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021>

This error was replaced with a dev-time warning, it will be deleted for v4 final. `[createGlobalStyle]` received children which will not be rendered. Please use the component without passing children elements.

It seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the `css` `` helper which ensures the styles are injected correctly. See <https://www.styled-components.com/docs/api#css>

%s is not a styled component and cannot be referred to via component selector. See <https://www.styled-components.com/docs/advanced#referring-to-other-components> for more details.

ThemeProvider: "theme" prop is required.

A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g. `js\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });`

Reached the limit of how many styled components may be created at group %s. You may only create up to 1,073,741,824 components. If you're creating components dynamically, `nas` for instance in your render method then you may be running into this limitation.

CSSStyleSheet could not be found on HTMLStyleElement.

Has styled-components' style tag been unmounted or altered by another script?

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@flow\n/* eslint-disable no-use-before-define *\n\nimport type { GroupedTag, Tag } from './types';\nimport { SPLITTER } from './constants';\nimport throwError from '../utils/error';\n\n/** Create a GroupedTag with an underlying Tag implementation *\n\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n  return new DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements GroupedTag {\n  groupSizes: Uint32Array;\n  length: number;\n  tag: Tag;\n\n  constructor(tag: Tag) {\n    this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n  }\n\n  indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n      index += this.groupSizes[i];\n    }\n    return index;\n  }\n\n  insertRules(group: number, rules: string[]): void {\n    if (group >= this.groupSizes.length) {\n      const oldBuffer = this.groupSizes;\n      const oldSize = oldBuffer.length;\n      let newSize = oldSize;\n      while (group >= newSize) {\n        newSize <<= 1;\n        if (newSize < 0) {\n          throwError(16, `${group}`);\n        }\n        this.groupSizes = new Uint32Array(newSize);\n        this.groupSizes.set(oldBuffer);\n        this.length = newSize;\n        for (let i = oldSize; i < newSize; i++) {\n          this.groupSizes[i] = 0;\n        }\n        let ruleIndex = this.indexOfGroup(group + 1);\n        for (let i = 0, l = rules.length; i < l; i++) {\n          if (this.tag.insertRule(ruleIndex, rules[i])) {\n            this.groupSizes[group]++;\n            ruleIndex++;\n          }\n        }\n        clearGroup(group: number): void {\n          if (group < this.length) {\n            const length = this.groupSizes[group];\n            const startIndex = this.indexOfGroup(group);\n            const endIndex = startIndex + length;\n            this.groupSizes[group] = 0;\n            for (let i = startIndex; i < endIndex; i++) {\n              this.tag.deleteRule(startIndex);\n            }\n          }\n          getGroup(group: number): string {\n            let css = "";\n            if (group >= this.length

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|| this.groupSizes[group] === 0) {\n  return css;\n  }\n\n  const length = this.groupSizes[group];\n  const\n  startIndex = this.indexOfGroup(group);\n  const endIndex = startIndex + length;\n\n  for (let i = startIndex; i <\n  endIndex; i++) {\n    css += `${this.tag.getRule(i)}${SPLITTER}`;\n    }\n\n  return css;\n  }\n}\n", "//\n@flow\n\nimport throwError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister:\nMap<string, number> = new Map();\nlet reverseRegister: Map<number, string> = new Map();\nlet nextFreeGroup =\n1;\n\nexport const resetGroupIds = () => {\n  groupIDRegister = new Map();\n  reverseRegister = new Map();\n  nextFreeGroup = 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n  if (groupIDRegister.has(id))\n  {\n    return (groupIDRegister.get(id): any);\n  }\n\n  while (reverseRegister.has(nextFreeGroup)) {\n    nextFreeGroup++;\n  }\n\n  const group = nextFreeGroup++;\n\n  if (process.env.NODE_ENV !==\n  'production' &&\n  ((group | 0) < 0 || group > MAX_SMI)\n  ) {\n    throwError(16, `${group}`);\n  }\n\n  groupIDRegister.set(id, group);\n  reverseRegister.set(group, id);\n  return group;\n};\n\nexport const\n  getIdForGroup = (group: number): void | string => {\n    return reverseRegister.get(group);\n  };;\n\nexport const\n  setGroupForId = (id: string, group: number) => {\n    if (group >= nextFreeGroup) {\n      nextFreeGroup = group +\n      1;\n    }\n\n    groupIDRegister.set(id, group);\n    reverseRegister.set(group, id);\n  };;\n", "// @flow\n\nimport {\n  SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport\n  {\n  getIdForGroup, setGroupForId } from './GroupIDAllocator';\nimport type { Sheet } from './types';\n\nconst\n  SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;\n\nconst MARKER_RE =\n  new RegExp(`^${SC_ATTR}\\\\.g(\\\\\\\\d+)[id=\\\"(\\\\\\\\w\\\\\\\\d-)+\\\"]\\\\.?!*(\\\\\\\\^)*`);\n\nexport const outputSheet =\n  (sheet: Sheet) => {\n    const tag = sheet.getTag();\n\n    const { length } = tag;\n\n    let css = "";\n\n    for (let group = 0; group < length; group++) {\n      const id =\n      getIdForGroup(group);\n\n      if (id === undefined) continue;\n\n      const names = sheet.names.get(id);\n      const rules\n      = tag.getGroup(group);\n\n      if (!names || !rules || !names.size) continue;\n\n      const selector =\n      `${SC_ATTR}.g${group}[id=\\\"${id}\\\"]`;\n\n      let content = "";\n\n      if (names !== undefined) {\n        names.forEach(name => {\n          if (name.length > 0) {\n            content += `${name},`;\n          }\n        });\n      }\n\n      //\n      NOTE: It's easier to collect rules and have the marker\n      // after the actual rules to simplify the rehydration\n      css\n      += `${rules}${selector}{content:\\\"${content}\\\"}${SPLITTER}`;\n\n      return css;\n    };;\n\n    const\n    rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n      const names = content.split(',');\n      let name;\n\n      for (let i = 0, l = names.length; i < l; i++) {\n        // eslint-disable-next-line\n\n        if ((name = names[i])) {\n          sheet.registerName(id, name);\n        }\n      }\n\n      const\n      rehydrateSheetFromTag = (sheet: Sheet, style: HTMLStyleElement) => {\n        const parts = (style.textContent || "").split(SPLITTER);\n        const\n        rules: string[] = [];\n\n        for (let i = 0, l = parts.length; i < l; i++) {\n          const part = parts[i].trim();\n          if (!part)\n          continue;\n\n          const marker = part.match(MARKER_RE);\n\n          if (marker) {\n            const group =\n            parseInt(marker[1], 10) | 0;\n            const id = marker[2];\n\n            if (group !== 0) {\n              // Rehydrate componentId to\n              group index mapping\n              setGroupForId(id, group);\n              // Rehydrate names and rules\n              // looks like: data-\n              styled.g1[id=\\\"idA\\\"]{content:\\\"nameA,\\\"}\n              rehydrateNamesFromContent(sheet, id, marker[3]);\n            }\n\n            sheet.getTag().insertRules(group, rules);\n          }\n\n          rules.length = 0;\n        }\n      }\n\n      rules.push(part);\n    }\n  }\n};;\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n  const\n  nodes = document.querySelectorAll(SELECTOR);\n\n  for (let i = 0, l = nodes.length; i < l; i++) {\n    const node =\n    ((nodes[i]: any): HTMLStyleElement);\n\n    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)\n    {\n      rehydrateSheetFromTag(sheet, node);\n\n      if (node.parentNode) {\n        node.parentNode.removeChild(node);\n      }\n    }\n  }\n};;\n", "// @flow\n\n/* eslint-disable camelcase, no-undef\n*/\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n  return typeof __webpack_nonce__\n  !== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n", "// @flow\n\nimport { SC_ATTR,\n  SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from\n  './utils/nonce';\nimport throwError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /*\nNode.ELEMENT_TYPE\n*/\n\nFind last style element if any inside target\n\nconst findLastStyleTag = (target:\n  HTMLElement): void | HTMLStyleElement => {\n  const { childNodes }

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= target;\n\n for (let i = childNodes.length; i >= 0; i--) {\n  const child = ((childNodes[i]: any):
?HTMLElement);\n  if (child && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n
  return ((child: any): HTMLStyleElement);\n  }\n }\n\n return undefined;\n};\n\n/** Create a style element
inside `target` or <head> after the last *\nexport const makeStyleTag = (target?: HTMLElement):
HTMLStyleElement => {\n  const head = ((document.head: any): HTMLElement);\n  const parent = target || head;\n
const style = document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling =
prevStyle !== undefined ? prevStyle.nextSibling : null;\n\n  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n
style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n\n  const nonce = getNonce();\n\n  if (nonce)
style.setAttribute('nonce', nonce);\n\n  parent.insertBefore(style, nextSibling);\n\n  return style;\n};\n\n/** Get the
CSSStyleSheet instance for a
given style element *\nexport const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n
return ((tag.sheet: any): CSSStyleSheet);\n  }\n\n  // Avoid Firefox quirk where the style element might not have a
sheet property\n  const { styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n  const
sheet = styleSheets[i];\n  if (sheet.ownerNode === tag) {\n  return ((sheet: any): CSSStyleSheet);\n  }\n }\n\n
throwStyledError(17);\n  return (undefined: any);\n};\n\n", "// @flow\n\n/* eslint-disable no-use-before-define
*\n\nimport { makeStyleTag, getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/**
Create a CSSStyleSheet-like tag depending on the environment *\nexport const makeTag = ({ isServer,
useCSSOMInjection, target }: SheetOptions): Tag => {\n  if (isServer) {\n  return new VirtualTag(target);\n  } else
if (useCSSOMInjection) {\n  return new CSSOMTag(target);\n  } else {\n  return new
TextTag(target);\n  }\n};\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n\n  sheet: CSSStyleSheet;\n\n  length: number;\n\n  constructor(target?: HTMLElement) {\n  const element =
(this.element = makeStyleTag(target));\n\n  // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode("")); \n\n  this.sheet = getSheet(element);\n  this.length = 0;\n
}\n\n  insertRule(index: number, rule: string): boolean {\n  try {\n  this.sheet.insertRule(rule, index);\n
this.length++;\n  return true;\n  } catch (_error) {\n  return false;\n  }\n }\n\n  deleteRule(index: number):
void {\n  this.sheet.deleteRule(index);\n  this.length--;\n }\n\n  getRule(index: number): string {\n  const rule =
this.sheet.cssRules[index];\n  // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n  if (rule
!== undefined && typeof rule.cssText === 'string') {\n  return rule.cssText;\n
  } else {\n  return ";\n  }\n }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes
*\nexport class TextTag implements Tag {\n  element: HTMLStyleElement;\n\n  nodes: NodeList<Node>;\n\n  length: number;\n\n  constructor(target?: HTMLElement) {\n  const element = (this.element =
makeStyleTag(target));\n  this.nodes = element.childNodes;\n  this.length = 0;\n }\n\n  insertRule(index: number,
rule: string): boolean {\n  if (index <= this.length && index >= 0) {\n  const node =
document.createTextNode(rule);\n  const refNode = this.nodes[index];\n  this.element.insertBefore(node,
refNode || null);\n  this.length++;\n  return true;\n  } else {\n  return false;\n  }\n }\n\n  deleteRule(index:
number): void {\n  this.element.removeChild(this.nodes[index]);\n  this.length--;\n }\n\n  getRule(index:
number): string {\n  if (index < this.length) {\n  return this.nodes[index].textContent;\n  } else {\n  return
";\n  }\n }\n }\n\n/** A completely virtual (server-side) Tag that doesn't manipulate the DOM *\nexport class
VirtualTag implements Tag {\n  rules: string[];\n\n  length: number;\n\n  constructor(_target?: HTMLElement) {\n
this.rules = [];\n  this.length = 0;\n }\n\n  insertRule(index: number, rule: string): boolean {\n  if (index <=
this.length) {\n  this.rules.splice(index, 0, rule);\n  this.length++;\n  return true;\n  } else {\n  return
false;\n  }\n }\n\n  deleteRule(index: number): void {\n  this.rules.splice(index, 1);\n  this.length--;\n }\n\n
getRule(index: number): string {\n  if (index < this.length) {\n  return this.rules[index];\n  } else {\n  return
";\n  }\n }\n }\n\n", "// @flow\n\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport {
EMPTY_OBJECT } from './utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport {
getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet
} from './Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from
 './types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\nntype SheetConstructorArgs = {\n  isServer?:

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boolean,\n useCSSOMInjection?: boolean,\n target?: HTMLElement,\n};\n\ntype GlobalStylesAllocationMap = {\n [key: string]: number };\n\ntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions:\n SheetOptions = {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains\n the main stylesheet logic for stringification and caching */\nexport default class StyleSheet implements Sheet {\n  gs: GlobalStylesAllocationMap;\n  names: NamesAllocationMap;\n  options: SheetOptions;\n  server:\n  boolean;\n  tag: void | GroupedTag;\n\n  /** Register a group ID to give it an index */\n  static registerId(id:\n  string): number {\n    return getGroupForId(id);\n  }\n\n  constructor(\n    options: SheetConstructorArgs =\n    EMPTY_OBJECT,\n    globalStyles?:\n    GlobalStylesAllocationMap = {},\n    names?: NamesAllocationMap\n  ) {\n    this.options = {\n    ...defaultOptions,\n    ...options,\n  };\n    this.gs = globalStyles;\n    this.names = new Map(names);\n    this.server = !options.isServer;\n\n    // We rehydrate only once and use the sheet that is created first\n    if\n    (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n      SHOULD_REHYDRATE = false;\n      rehydrateSheet(this);\n    }\n\n    reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =\n    true) {\n      return new StyleSheet(\n        { ...this.options, ...options },\n        this.gs,\n        (withNames && this.names) ||\n        undefined\n      );\n    }\n\n    allocateGSInstance(id: string) {\n      return (this.gs[id] = (this.gs[id] || 0) + 1);\n    }\n\n    /**\n    Lazily initialises a GroupedTag for when it's actually needed */\n    getTag(): GroupedTag {\n      return this.tag ||\n      (this.tag = makeGroupedTag(makeTag(this.options)));\n    }\n\n    /** Check whether a name\n    is known for caching */\n    hasNameForId(id: string, name: string): boolean {\n      return this.names.has(id) &&\n      (this.names.get(id): any).has(name);\n    }\n\n    /** Mark a group's name as known for caching */\n    registerName(id:\n    string, name: string) {\n      getGroupForId(id);\n\n      if (!this.names.has(id)) {\n        const groupNames = new Set();\n        groupNames.add(name);\n        this.names.set(id, groupNames);\n      } else {\n        (this.names.get(id):\n        any).add(name);\n      }\n    }\n\n    /** Insert new rules which also marks the name as known */\n    insertRules(id: string,\n    name: string, rules: string[]) {\n      this.registerName(id, name);\n      this.getTag().insertRules(getGroupForId(id),\n      rules);\n    }\n\n    /** Clears all cached names for a given group ID */\n    clearNames(id: string) {\n      if\n      (this.names.has(id)) {\n        (this.names.get(id): any).clear();\n      }\n    }\n\n    /** Clears all rules for a given group ID\n    */\n    clearRules(id: string) {\n      this.getTag().clearGroup(getGroupForId(id));\n\n      this.clearNames(id);\n    }\n\n    /** Clears the entire tag which deletes all rules but not its names */\n    clearTag() {\n      // NOTE: This does not clear the names, since it's only used during SSR\n      // so that we can continuously output\n      only new rules\n      this.tag = undefined;\n    }\n\n    /** Outputs the current sheet as a CSS string with markers for SSR\n    */\n    toString(): string {\n      return outputSheet(this);\n    }\n\n    /** @flow\n    eslint-disable no-bitwise */\n\n    const\n    AD_REPLACER_R = /(a)(d)(g)(i);/n\n\n    /* This is the "capacity" of our alphabet i.e. 2x26 for all letters plus their\n    capitalised\n    * counterparts */\n    const\n    charsLength = 52;\n\n    /* start at 75 for 'a' until 'z' (25) and then start at 65 for\n    capitalised letters */\n    const\n    getAlphabeticChar = (code: number): string =>\n    String.fromCharCode(code + (code >\n    25 ? 39 : 97));\n\n    /* input a number, usually a hash and convert it to base-52 */\n    export\n    default\n    function\n    generateAlphabeticName(code: number): string {\n      let\n      name\n      = '';\n      let\n      x;\n\n      /* get a char and divide by alphabet-length */\n      for\n      (x = Math.abs(code); x > charsLength; x = (x /\n      charsLength) | 0) {\n        name = getAlphabeticChar(x % charsLength) + name;\n      }\n\n      return\n      (getAlphabeticChar(x % charsLength) + name).replace(AD_REPLACER_R, '$1-$2');\n    }\n\n    /** @flow\n    eslint-disable */\n\n    export\n    const\n    SEED = 5381;\n\n    // When we have separate strings it's useful to run a progressive\n    // version of djb2 where we\n    pretend that we're still looping over\n    // the same string\n    export\n    const\n    phash = (h: number, x: string): number => {\n      let\n      i = x.length;\n\n      while\n      (i) {\n        h = (h * 33) ^ x.charCodeAt(--i);\n      }\n\n      return\n      h;\n    }\n\n    // This is a djb2\n    hashing\n    function\n    export\n    const\n    hash = (x: string): number => {\n      return\n      phash(SEED, x);\n    }\n\n    /** @flow\n    import\n    isFunction from './isFunction';\n    import\n    isStyledComponent from './isStyledComponent';\n    import\n    type { RuleSet }\n    from './types';\n\n    export\n    default\n    function\n    isStaticRules(rules: RuleSet): boolean\n    {\n      for\n      (let\n      i = 0; i < rules.length; i += 1) {\n        const\n        rule = rules[i];\n\n        if\n        (isFunction(rule) &&\n        !isStyledComponent(rule)) {\n          // functions are allowed to be static if they're just being\n          // used to get the\n          classname of a nested styled component\n          return\n          false;\n        }\n      }\n\n      return\n      true;\n    }\n\n    /** @flow\n    import\n    { SC_VERSION }\n    from './constants';\n    import\n    StyleSheet from './sheet';\n    import\n    type { RuleSet, Stringifier }\n    from

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'./types';\nimport flatten from './utils/flatten';\nimport generateName from
'./utils/generateAlphabeticName';\nimport { hash, phash } from './utils/hash';\nimport isStaticRules from
'./utils/isStaticRules';\n\nconst SEED = hash(SC_VERSION);\n\n/**\n * ComponentStyle is all the CSS-specific
stuff, not the React-specific stuff.\n */\nexport default class ComponentStyle {\n  baseHash: number;\n\n  baseStyle:
?ComponentStyle;\n\n  componentId: string;\n\n  isStatic: boolean;\n\n  rules: RuleSet;\n\n  staticRulesId: string;\n\n  constructor(rules:
RuleSet, componentId: string, baseStyle?: ComponentStyle) {\n    this.rules = rules;\n    this.staticRulesId = "";\n
this.isStatic = process.env.NODE_ENV === 'production' &&\n    (baseStyle === undefined || baseStyle.isStatic)
&&\n    isStaticRules(rules);\n    this.componentId = componentId;\n\n    // SC_VERSION gives us isolation
between multiple runtimes on the page at once\n    // this is improved further with use of the babel plugin
`"namespace"` feature\n    this.baseHash = phash(SEED, componentId);\n    this.baseStyle = baseStyle;\n\n    //
NOTE: This registers the componentId, which ensures a consistent order\n    // for this component's styles compared
to others\n    StyleSheet.registerId(componentId);\n  }\n\n  /**\n   * Flattens a rule set into valid CSS\n   * Hashes it,
wraps the whole chunk in a .hash1234 { }\n   * Returns the hash to be injected on render()\n   */\n  generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis:
Stringifier) {\n    const { componentId } = this;\n    const names = [];\n\n    if (this.baseStyle) {\n
names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));\n    }\n\n    // force
dynamic classnames if user-supplied stylis plugins are in use\n    if (this.isStatic && !stylis.hash) {\n    if
(this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {\n
names.push(this.staticRulesId);\n    } else {\n    const cssStatic = flatten(this.rules, executionContext, styleSheet,
stylis).join("");\n    const name = generateName(phash(this.baseHash, cssStatic) >>> 0);\n\n    if
(!styleSheet.hasNameForId(componentId, name)) {\n    const cssStaticFormatted = stylis(cssStatic, `.${name}`,
undefined, componentId);\n\n    styleSheet.insertRules(componentId, name, cssStaticFormatted);\n    }\n\n
names.push(name);\n    this.staticRulesId = name;\n    }\n  } else {\n    const { length
} = this.rules;\n    let dynamicHash = phash(this.baseHash, stylis.hash);\n    let css = "";\n\n    for (let i = 0; i <
length; i++) {\n    const partRule = this.rules[i];\n\n    if (typeof partRule === 'string') {\n    css +=
partRule;\n\n    if (process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule +
i);\n    } else if (partRule) {\n    const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n
const partString = Array.isArray(partChunk) ? partChunk.join("") : partChunk;\n    dynamicHash =
phash(dynamicHash, partString + i);\n    css += partString;\n    }\n  }\n\n  if (css) {\n    const name =
generateName(dynamicHash >>> 0);\n\n    if (!styleSheet.hasNameForId(componentId, name)) {\n    const
cssFormatted = stylis(css, `.${name}`, undefined, componentId);\n    styleSheet.insertRules(componentId, name,
cssFormatted);\n    }\n\n    names.push(name);\n  }\n\n  return names.join(' ');\n  }\n}\n\n,"import Stylin from '@emotion/stylin';\nimport { type Stringifier }
from './types';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwStyledError from
'./error';\nimport { phash, SEED } from './hash';\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst
COMMENT_REGEX = /^\\s*\\|\\|\\. *$/gm;\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];\n\ntype
StylinInstanceConstructorArgs = {\n  options?: Object,\n  plugins?: Array<Function>,\n};\n\nexport default function
createStylinInstance({\n  options = EMPTY_OBJECT,\n  plugins = EMPTY_ARRAY,\n}):
StylinInstanceConstructorArgs = EMPTY_OBJECT) {\n  const stylis = new Stylin(options);\n\n  // Wrap
`insertRulePlugin` to build a list of rules,\n  // and then make our own plugin to return the rules. This\n  // makes it
easier to hook into the existing SSR architecture\n\n  let parsingRules = [];\n\n  // eslint-disable-next-line consistent-
return\n\n  const returnRulesPlugin = context => {\n    if (context === -2) {\n    const parsedRules = parsingRules;\n
parsingRules = [];\n    return parsedRules;\n    }\n  };\n\n  const parseRulesPlugin = insertRulePlugin(rule => {\n
parsingRules.push(rule);\n  });\n\n  let _componentId: string;\n  let _selector: string;\n  let _selectorRegexp:
RegExp;\n  let _consecutiveSelfRefRegexp: RegExp;\n\n  const selfReferenceReplacer = (match, offset, string) =>
{\n    if (\n    // do not replace the first occurrence if it is complex (has a modifier)\n    (offset === 0 ?

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COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 : true) &&\n // no consecutive self
refs (.b.b); that is a precedence boost and treated differently\n !string.match(_consecutiveSelfRefRegExp)\n )
{\n return `.${_componentId}`;\n }\n\n return match;\n };\n\n /**\n * When writing a style like\n * \n *
& + & {\n * color: red;\n * }\n * \n * The second ampersand should
be a reference to the static component class. stylis\n * has no knowledge of static class so we have to intelligently
replace the base selector.\n * \n * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the
context phase values\n * \"2\" means this plugin is taking effect at the very end after all other processing is
complete\n * \n const selfReferenceReplacementPlugin = (context, _, selectors) => {\n if (context === 2 &&
selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n // eslint-disable-next-line no-param-reassign\n
selectors[0] = selectors[0].replace(_selectorRegExp, selfReferenceReplacer);\n };\n\n stylis.use([...plugins,
selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n\n function stringifyRules(css, selector,
prefix, componentId = '&'): Stringifier {\n const flatCSS = css.replace(COMMENT_REGEX, "");\n const cssStr
= selector && prefix ? `${prefix} ${selector} { ${flatCSS} }`
: flatCSS;\n\n // stylis has no concept of state to be passed to plugins\n // but since JS is single-threaded, we can
rely on that to ensure\n // these properties stay in sync with the current stylis run\n _componentId =
componentId;\n _selector = selector;\n _selectorRegExp = new RegExp(`\\${_selector}`);
_consecutiveSelfRefRegExp = new RegExp(`\\${_selector}`);
return stylis(prefix || !selector ? " :
selector, cssStr);\n }\n\n stringifyRules.hash = plugins.length\n ? plugins\n .reduce((acc, plugin) => {\n
if (!plugin.name) {\n throwStyledError(15);\n }\n\n return phash(acc, plugin.name);\n },
SEED)\n .toString()\n : ";\n\n return stringifyRules;\n }\n\n", /**\n * MIT License\n * \n * Copyright (c) 2016
Sultan Tarimo\n * \n * Permission is hereby granted, free of charge, to any person obtaining a copy of\n * this
software and associated documentation files (the \"Software\"),\n
* to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or\n * sell copies of the Software and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:\n * \n * The above copyright notice and this permission
notice shall be included in all\n * copies or substantial portions of the Software.\n * \n * THE SOFTWARE IS
PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n * OR IMPLIED INCLUDING
BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n * AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,\n * WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR\n * IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.\n */\n\n\nexport default function(insertRule) {\n
const delimiter = /**/;\n const needle = `${delimiter}`;\n\n function toSheet(block) {\n if (block) {\n try
{\n insertRule(`${block}`);\n } catch (e) {\n }\n\n return function ruleSheet(\n context,\n
content,\n selectors,\n parents,\n line,\n column,\n length,\n ns,\n depth,\n at\n ) {\n switch
(context) {\n // property\n case 1:\n // @import\n if (depth === 0 && content.charCodeAt(0) === 64)
return insertRule(`${content};`);\n break;\n // selector\n case 2:\n if (ns === 0) return content +
delimiter;\n break;\n // at-rule\n case 3:\n switch (ns) {\n // @font-face, @page\n case
102:\n case 112:\n return insertRule(selectors[0] + content), ";\n default:\n return content +
(at === 0 ? delimiter : ");\n };\n case -2:\n content.split(needle).forEach(toSheet);\n }\n
};\n\n", /**\n @flow\nimport React, { type Context, type Node, useContext, useEffect, useMemo, useState } from
'react';\nimport shallowequal from 'shallowequal';\nimport StyleSheet from './sheet';\nimport type { Stringifier }
from './types';\nimport createStylisInstance from './utils/stylis';\n\ntype Props = {\n children?: Node,\n
disableCSSOMInjection?: boolean,\n disableVendorPrefixes?: boolean,\n sheet?: StyleSheet,\n stylisPlugins?:
Array<Function>,\n target?: HTMLElement,\n};\n\nexport const StyleSheetContext: Context<StyleSheet | void> =
React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const
StylisContext: Context<Stringifier | void> = React.createContext();\nexport const StylisConsumer =

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StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:
Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n return
useContext(StyleSheetContext) ||
  masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n return useContext(StylisContext) ||
  masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n const [plugins, setPlugins] =
useState(props.stylisPlugins);\n const contextStyleSheet = useStyleSheet();\n\n const styleSheet = useMemo(() =>
{\n let sheet = contextStyleSheet;\n\n if (props.sheet) {\n // eslint-disable-next-line prefer-destructuring\n
sheet = props.sheet;\n } else if (props.target) {\n sheet = sheet.reconstructWithOptions({ target: props.target },
false);\n }\n\n if (props.disableCSSOMInjection) {\n sheet = sheet.reconstructWithOptions({
useCSSOMInjection: false });\n }\n\n return sheet;\n }, [props.disableCSSOMInjection, props.sheet,
props.target]);\n\n const stylis = useMemo(\n () =>\n createStylisInstance({\n options: { prefix:
!props.disableVendorPrefixes },\n plugins,\n }),\n [props.disableVendorPrefixes, plugins]\n
);\n\n useEffect(() => {\n if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);\n },
[props.stylisPlugins]);\n\n return (\n <StyleSheetContext.Provider value={styleSheet}>\n
<StylisContext.Provider value={stylis}>\n {process.env.NODE_ENV !== 'production'\n ?
React.Children.only(props.children)\n : props.children}\n </StylisContext.Provider>\n
</StyleSheetContext.Provider>\n );\n}\n\n", "// @flow\nimport StyleSheet from './sheet';\nimport { type Stringifier }
from './types';\nimport throwStyledError from './utils/error';\nimport { masterStylis } from
'/StyleSheetManager';\n\nexport default class Keyframes {\n id: string;\n\n name: string;\n\n rules: string;\n\n
constructor(name: string, rules: string) {\n this.name = name;\n this.id = `sc-keyframes-${name}`;\n this.rules
= rules;\n }\n\n inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n const
resolvedName
= this.name + stylisInstance.hash;\n\n if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n
styleSheet.insertRules(\n this.id,\n resolvedName,\n stylisInstance(this.rules, resolvedName,
'@keyframes')\n );\n }\n\n }; \n\n toString = () => {\n return throwStyledError(12, String(this.name));\n }; \n\n
getName(stylisInstance: Stringifier = masterStylis) {\n return this.name + stylisInstance.hash;\n }\n}\n\n", "//
@flow\n\n**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n * \n\nconst
uppercaseCheck = /^[A-Z]/;\nconst uppercasePattern = /^[A-Z]/g;\nconst msPattern = /^ms-/;\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n**\n * Hyphenates a camelcased
CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n
* > hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n * \n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `-ms-`.\n * \n * @param {string} string\n *
@return {string}\n * \n\nexport default function hyphenateStyleName(string: string): string {\n return
uppercaseCheck.test(string)\n ? string\n .replace(uppercasePattern, prefixAndLowerCase)\n .replace(msPattern,
'-ms-')\n : string;\n}\n\n", "// @flow\nimport { isElement } from 'react-is';\nimport getComponentName from
'/getComponentName';\nimport isFunction from './isFunction';\nimport isStatelessFunction from
'/isStatelessFunction';\nimport isPlainObject from './isPlainObject';\nimport isStyledComponent from
'/isStyledComponent';\nimport Keyframes from './models/Keyframes';\nimport hyphenate from
'/hyphenateStyleName';\nimport addUnitIfNeeded from './addUnitIfNeeded';\nimport { type Stringifier } from
'./types';\n\n**\n * It's falsish not falsy because 0 is allowed.\n
*\n\nconst isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';\n\nexport
const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {\n const rules = [];\n\n for
(const key in obj) {\n if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;\n\n if
((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {\n rules.push(`${hyphenate(key)}:`,
obj[key], `;`);\n } else if (isPlainObject(obj[key])) {\n rules.push(...objToCssArray(obj[key], key));\n } else
{\n rules.push(`${hyphenate(key)}: ${addUnitIfNeeded(key, obj[key]);};`);\n }\n }\n\n return prevKey ?

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[ ${prevKey} {, ...rules, '}] : rules;\n);\n\nexport default function flatten(\n chunk: any,\n executionContext:\n ?Object,\n styleSheet: ?Object,\n stylisInstance: ?Stringifier\n): any {\n if (Array.isArray(chunk)) {\n const\n ruleSet = [];\n for (let i = 0, len = chunk.length, result; i < len; i += 1)\n {\n result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);\n if (result === "") continue;\n else if (Array.isArray(result)) ruleSet.push(...result);\n else ruleSet.push(result);\n }\n return ruleSet;\n }\n if (isFalsish(chunk)) {\n return "";\n }\n /* Handle other components */\n if (isStyledComponent(chunk))\n {\n return `.${chunk.styledComponentId}`;\n }\n /* Either execute or defer the function */\n if (\n isFunction(chunk) {\n if (isStatelessFunction(chunk) && executionContext) {\n const result =\n chunk(executionContext);\n if (process.env.NODE_ENV !== 'production' && isElement(result)) {\n //\n eslint-disable-next-line no-console\n console.warn(\n `.${getComponentName(\n chunk\n )} is\n not a styled component and cannot be referred to via component selector. See https://www.styled-\n components.com/docs/advanced#referring-to-other-components for more details.`\n );\n }\n return flatten(result, executionContext, styleSheet, stylisInstance);\n } else return chunk;\n }\n if (chunk instanceof Keyframes) {\n if (styleSheet) {\n chunk.inject(styleSheet, stylisInstance);\n return chunk.getName(stylisInstance);\n } else return chunk;\n }\n /* Handle objects */\n return\n isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();\n }\n}\n", /* @flow\n\nexport default function\nisStatelessFunction(test: any): boolean {\n return (\n typeof test === 'function'\n && !(\n test.prototype\n && test.prototype.isReactComponent\n )\n );\n }\n", /* @flow\n\nimport unitless from '@emotion/unitless';\n\n//\n Taken from https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-\n dom/src/shared/dangerousStyleValue.js\nexport default function addUnitIfNeeded(name: string, value: any): any {\n //\n https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n // $FlowFixMe\n if (value == null || typeof value === 'boolean' || value === "") {\n return "";\n }\n if (typeof value === 'number'\n && value !== 0 && !(name in unitless) && !name.startsWith('--')) {\n return `${value}px`; // Presumes implicit\n 'px' suffix for unitless numbers except for CSS variables\n }\n return String(value).trim();\n }\n", /* @flow\n\nimport interleave from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport {\n EMPTY_ARRAY } from './utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from\n './utils/flatten';\nimport type { Interpolation, RuleSet, Styles } from './types';\n\n/*\n * Used when flattening object\n styles to determine if we should\n * expand an array of styles.\n */\nconst addTag = arg => {\n if\n (Array.isArray(arg)) {\n // eslint-disable-next-line no-param-reassign\n arg.isCss = true;\n }\n return\n arg;\n }\n\nexport default function css(styles: Styles, ...interpolations: Array<Interpolation>):\n RuleSet {\n if (isFunction(styles) || isPlainObject(styles)) {\n // $FlowFixMe\n return\n addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n }\n if (interpolations.length === 0\n && styles.length === 1 && typeof styles[0] === 'string') {\n // $FlowFixMe\n return styles;\n }\n // $FlowFixMe\n return addTag(flatten(interleave(styles, interpolations)));\n }\n", /* @flow\n\nimport { useRef } from\n 'react';\n\nconst invalidHookCallRe = /invalid hook call/i;\nconst seen = new Set();\n\nexport const\n checkDynamicCreation = (displayName: string, componentId?: string) => {\n if (process.env.NODE_ENV !==\n 'production') {\n const parsedIdString = componentId ? ` with the id of "${componentId}"` : "";\n const message\n =`\n The component ${displayName}${parsedIdString} has been created dynamically.\n` +`\n You may see\n this warning because you've called styled inside another component.\n`\n +`\n To resolve this only create new\n StyledComponents\n outside of any render method and function component.`;\n // If a hook is called outside of a component:\n //\n React 17 and earlier throw an error\n // React 18 and above use console.error\n const originalConsoleError =\n console.error // eslint-disable-line no-console\n try {\n let didNotCallInvalidHook = true\n /*\n $FlowIgnore[cannot-write] *\n console.error = (consoleErrorMessage, ...consoleErrorArgs) => { // eslint-\n disable-line no-console\n // The error here is expected, since we're expecting anything that uses\n `checkDynamicCreation` to\n // be called outside of a React component.\n if\n (invalidHookCallRe.test(consoleErrorMessage)) {\n didNotCallInvalidHook = false\n // This shouldn't\n happen, but resets `warningSeen` if we had this error happen intermittently\n seen.delete(message);\n }\n }

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else {\n      originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);\n    }\n  }\n  // We purposefully call `useRef` outside of a component and expect it to throw\n  // If it doesn't, then we're\n  inside another component.\n  // eslint-disable-next-line react-hooks/rules-of-hooks\n  useRef();\n  if\n  (didNotCallInvalidHook && !seen.has(message)) {\n    // eslint-disable-next-line no-console\n    console.warn(message);\n    seen.add(message);\n  } catch (error) {\n    // The error here is expected,\n    since we're expecting anything that uses `checkDynamicCreation` to\n    // be called outside of a React\n    component.\n    if (invalidHookCallRe.test(error.message)) {\n      // This shouldn't happen, but resets\n      `warningSeen` if we had this error happen intermittently\n      seen.delete(message);\n    }\n  } finally {\n    /*\n    $FlowIgnore[cannot-write] *\n    console.error = originalConsoleError; // eslint-disable-line no-console\n  }\n};\n", "@flow\nimport { EMPTY_OBJECT } from './empties';\n\nexport type Props = {\n  theme?: any,\n};\n\nexport default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) =>\n{\n  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;\n};\n", "@flow\n\n// Source: https://www.w3.org/TR/cssom-1/#serialize-an-identifier\n// Control characters and non-letter\nfirst symbols are not supported\nconst escapeRegex = /[#%&'()*+,-;=<=>@[\\|\\|\\|\\|\\|\\|^{}~]+/g;\nconst\n  dashesAtEnds = /^(^-$)/g;\n\n/**\n * TODO: Explore using CSS.escape when it becomes more available\n * in\n * evergreen browsers.\n */\nexport default function escape(str: string): string {\n  return (\n    str\n    // Replace all\n    possible CSS selectors\n    .replace(escapeRegex, '-')\n    // Remove extraneous hyphens at the start and end\n    .replace(dashesAtEnds, "")\n  );\n};\n", "@flow\n/* eslint-disable */\nimport generateAlphabeticName from\n './generateAlphabeticName';\nimport { hash } from './hash';\n\nexport default (str: string): string\n=> {\n  return generateAlphabeticName(hash(str) >>> 0);\n};\n", "@flow\nimport type { IStyledComponent }\nfrom './types';\n\nexport default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean\n%checks {\n  return (\n    typeof target === 'string' &&\n    (process.env.NODE_ENV !== 'production'\n      ?\n      target.charAt(0) === target.charAt(0).toLowerCase()\n      : true)\n  );\n};\n", /* eslint-disable */\n\n/**\n * mixin-deep\n * https://github.com/jonschlinkert/mixin-deep\n * Inlined such that it will be consistently transpiled to an IE-\n * compatible syntax.\n * The MIT License (MIT)\n * Copyright (c) 2014-present, Jon Schlinkert.\n * Permission is\n * hereby granted, free of charge, to any person obtaining a copy\n * of this software and associated documentation files\n * (the "Software"), to deal\n * in the Software without restriction, including without limitation the rights\n * to use,\n * copy, modify, merge, publish, distribute, sublicense, and/or sell\n * copies of the Software,\n * and to permit persons to whom the Software is\n * furnished to do so, subject to the following conditions:\n * The\n * above copyright notice and this permission notice shall be included in\n * all copies or substantial portions of the\n * Software.\n * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n * OR\n * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,\n * OUT\n * OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN\n * THE\n * SOFTWARE.\n */\nconst isObject = val => {\n  return (\n    typeof val === 'function' || (typeof val === 'object'\n      && val !== null && !Array.isArray(val))\n  );\n};\n\nconst isValidKey = key => {\n  return key !== '__proto__'\n    && key !== 'constructor' && key !== 'prototype';\n};\n\nfunction\n  mixin(target, val, key) {\n    const obj = target[key];\n    if (isObject(val) && isObject(obj)) {\n      mixinDeep(obj,\n        val);\n    } else {\n      target[key] = val;\n    }\n  }\n\nexport default function mixinDeep(target, ...rest) {\n  for (const obj\n    of rest) {\n    if (isObject(obj)) {\n      for (const key in obj) {\n        if (isValidKey(key)) {\n          mixin(target,\n            obj[key], key);\n        }\n      }\n    }\n  }\n\n  return target;\n};\n", "@flow\nimport React, { useContext, useMemo,\n  type Element, type Context } from 'react';\nimport throwStyledError from './utils/error';\nimport isFunction from\n './utils/isFunction';\n\nexport type Theme = { [key: string]: mixed };\n\nexport type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);\n\nexport type Props = {\n  children?: Element<any>,\n  theme:\n  ThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void> = React.createContext();\n\nexport\n  const ThemeConsumer = ThemeContext.Consumer;\n\nfunction mergeTheme(theme: ThemeArgument,\n
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outerTheme?: Theme): Theme {\n  if (!theme) {\n    return throwStyledError(14);\n  }\n  if (isFunction(theme))\n  {\n    const mergedTheme = theme(outerTheme);\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      (mergedTheme === null || Array.isArray(mergedTheme) ||\n        typeof mergedTheme !== 'object')\n    ) {\n      return\n      throwStyledError(7);\n    }\n    return mergedTheme;\n  }\n  if (Array.isArray(theme) ||\n    typeof theme !== 'object') {\n    return throwStyledError(8);\n  }\n  return outerTheme ? { ...outerTheme, ...theme } :\n  theme;\n}\n\n/**\n * Provide a theme to an entire react component tree via context\n */\nexport default function\nThemeProvider(props: Props) {\n  const outerTheme = useContext(ThemeContext);\n  const themeContext =\n  useMemo(() => mergeTheme(props.theme, outerTheme), [\n    props.theme,\n    outerTheme,\n  ]);\n  if\n  (!props.children) {\n    return null;\n  }\n  return <ThemeContext.Provider\n  value={themeContext}>{\n    props.children\n  }</ThemeContext.Provider>;\n}\n\n//\n@flow\nimport validAttr from '@emotion/is-prop-valid';\nimport hoist from 'hoist-non-react-statics';\nimport\nReact, { createElement, type Ref, useContext } from 'react';\nimport { SC_VERSION } from './constants';\nimport\ntype {\n  Attrs,\n  IStyledComponent,\n  IStyledStatics,\n  RuleSet,\n  ShouldForwardProp,\n  Target,\n} from\n'./types';\nimport { checkDynamicCreation } from './utils/checkDynamicCreation';\nimport\ncreateWarnTooManyClasses from './utils/createWarnTooManyClasses';\nimport determineTheme from\n'./utils/determineTheme';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from './utils/empties';\nimport escape\nfrom './utils/escape';\nimport generateComponentId from './utils/generateComponentId';\nimport\ngenerateDisplayName from './utils/generateDisplayName';\nimport getComponentName from\n'./utils/getComponentName';\nimport isFunction from './utils/isFunction';\nimport isStyledComponent from\n'./utils/isStyledComponent';\nimport isTag from './utils/isTag';\nimport\njoinStrings from './utils/joinStrings';\nimport merge from './utils/mixinDeep';\nimport ComponentStyle from\n'./ComponentStyle';\nimport { useStyleSheet, useStylis } from './StyleSheetManager';\nimport { ThemeContext }\nfrom './ThemeProvider';\n\nconst identifiers = {};\n\n/* We depend on components having unique IDs */\nfunction\ngenerateId(displayName?: string, parentComponentId?: string) {\n  const name =\n    typeof displayName !== 'string' ?\n    'sc' : escape(displayName);\n  // Ensure that no displayName can lead to duplicate componentIds\n  identifiers[name] = (identifiers[name] || 0) + 1;\n  const componentId = `${name}-${generateComponentId(\n    // SC_VERSION gives us isolation between multiple runtimes on the page at once\n    // this is improved further with\n    use of the babel plugin "namespace" feature\n    SC_VERSION + name + identifiers[name])}`;\n  return\n  parentComponentId ? `${parentComponentId}-${componentId}` : componentId;\n}\n\nfunction\nuseResolvedAttrs<Config>(theme:\n  any = EMPTY_OBJECT, props: Config, attrs: Attrs) {\n  // NOTE: can't memoize this\n  // returns [context,\n  resolvedAttrs]\n  // where resolvedAttrs is only the things injected by the attrs themselves\n  const context = {\n    ...props, theme\n  }; \n  const resolvedAttrs = {};\n  attrs.forEach(attrDef => {\n    let resolvedAttrDef = attrDef;\n    let key;\n    if (isFunction(resolvedAttrDef)) {\n      resolvedAttrDef = resolvedAttrDef(context);\n    }\n    /*\n    eslint-disable guard-for-in *\n    for (key in resolvedAttrDef) {\n      context[key] = resolvedAttrs[key] =\n      key\n      === 'className'\n      ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])\n      : resolvedAttrDef[key];\n    }\n    /* eslint-enable guard-for-in */\n  });\n  return [context, resolvedAttrs];\n}\n\nfunction\nuseInjectedStyle<T>(componentStyle: ComponentStyle,\n  isStatic: boolean,\n  resolvedAttrs: T,\n  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses,\n  string, string>)\n  {\n    const styleSheet = useStyleSheet();\n    const stylis = useStylis();\n    const className = isStatic\n    ?\n    componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)\n    :\n    componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n    if (process.env.NODE_ENV !==\n    'production' && !isStatic && warnTooManyClasses) {\n      warnTooManyClasses(className);\n    }\n    return\n    className;\n  }\n\nfunction useStyledComponentImpl(\n  forwardedComponent: IStyledComponent,\n  props:\n  Object,\n  forwardedRef: Ref<any>,\n  isStatic: boolean)\n  {\n    const {\n      attrs: componentAttrs,\n      componentStyle,\n      defaultProps,\n      foldedComponentIds,\n      shouldForwardProp,\n      styledComponentId,\n      target,\n    } = forwardedComponent;\n    // NOTE: the non-hooks version only subscribes to this when\n    !componentStyle.isStatic,\n    // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it\n
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// should be an immutable value, but behave for now.\n
const theme = determineTheme(props, useContext(ThemeContext), defaultProps);\n\n const [context, attrs] =
useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);\n\n const generatedClassName =
useInjectedStyle(\n componentStyle,\n isStatic,\n context,\n process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n );\n\n const refToForward = forwardedRef;\n\n const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n\n const isTargetTag =
isTag(elementToBeCreated);\n\n const computedProps = attrs !== props ? { ...props, ...attrs } : props;\n\n const
propsForElement = { }\n\n // eslint-disable-next-line guard-for-in\n for (const key in computedProps) {\n if
(key[0] === '$' || key === 'as') continue;\n else if (key === 'forwardedAs') {\n propsForElement.as =
computedProps[key];\n } else if (\n shouldForwardProp\n ? shouldForwardProp(key, validAttr,
elementToBeCreated)\n
: isTargetTag\n ? validAttr(key)\n : true\n ) {\n // Don't pass through non HTML tags through to
HTML elements\n propsForElement[key] = computedProps[key];\n }\n }\n\n if (props.style && attrs.style
!== props.style) {\n propsForElement.style = { ...props.style, ...attrs.style }; \n }\n\n propsForElement.className
= Array.prototype\n .concat(\n foldedComponentIds,\n styledComponentId,\n generatedClassName !==
styledComponentId ? generatedClassName : null,\n props.className,\n attrs.className\n )\n
.filter(Boolean)\n .join(' ');\n\n propsForElement.ref = refToForward;\n\n return
createElement(elementToBeCreated, propsForElement);\n\n\nexport default function createStyledComponent(\n
target: $PropertyType<IStyledComponent, 'target'>,\n options: {\n attrs?: Attrs,\n componentId: string,\n
displayName?: string,\n parentComponentId?: string,\n shouldForwardProp?: ShouldForwardProp,\n },\n rules:
RuleSet\n) {\n const isTargetStyledComp = isStyledComponent(target);\n const isCompositeComponent =
!isTag(target);\n\n const {\n attrs = EMPTY_ARRAY,\n componentId = generateId(options.displayName,
options.parentComponentId),\n displayName = generateDisplayName(target),\n } = options;\n\n const
styledComponentId =\n options.displayName && options.componentId\n ? `${escape(options.displayName)}-
${options.componentId}`\n : options.componentId || componentId;\n\n // fold the underlying StyledComponent
attrs up (implicit extend)\n const finalAttrs =\n isTargetStyledComp && ((target: any): IStyledComponent).attrs\n
? Array.prototype.concat(((target: any): IStyledComponent).attrs, attrs).filter(Boolean)\n : attrs;\n\n // eslint-
disable-next-line prefer-destructuring\n let shouldForwardProp = options.shouldForwardProp;\n\n if
(isTargetStyledComp && target.shouldForwardProp) {\n if (options.shouldForwardProp) {\n // compose
nested shouldForwardProp
calls\n shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n (((target: any):
IStyledComponent).shouldForwardProp: any): ShouldForwardProp)(\n prop,\n filterFn,\n
elementToBeCreated\n ) &&\n ((options.shouldForwardProp: any): ShouldForwardProp)(prop, filterFn,
elementToBeCreated);\n } else {\n // eslint-disable-next-line prefer-destructuring\n shouldForwardProp =
((target: any): IStyledComponent).shouldForwardProp;\n }\n }\n\n const componentStyle = new
ComponentStyle(\n rules,\n styledComponentId,\n isTargetStyledComp ? ((target: Object).componentStyle:
ComponentStyle) : undefined\n );\n\n // statically styled-components don't need to build an execution context
object,\n // and shouldn't be increasing the number of class names\n const isStatic = componentStyle.isStatic &&
attrs.length === 0;\n\n /**\n * forwardRef creates a new interim component, which we'll take advantage of\n
* instead of extending ParentComponent to create _another_ interim class\n */\n let WrappedStyledComponent:
IStyledComponent;\n\n const forwardRef = (props, ref) =>\n // eslint-disable-next-line\n
useStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);\n\n forwardRef.displayName =
displayName;\n\n WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);\n\n
WrappedStyledComponent.attrs = finalAttrs;\n\n WrappedStyledComponent.componentStyle = componentStyle;\n\n
WrappedStyledComponent.displayName = displayName;\n\n WrappedStyledComponent.shouldForwardProp =
shouldForwardProp;\n\n // this static is used to preserve the cascade of static classes for component selector\n //
purposes; this is especially important with usage of the css prop\n\n WrappedStyledComponent.foldedComponentIds
= isTargetStyledComp\n ? Array.prototype.concat(\n ((target: any):

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IStyledComponent).foldedComponentIds,\n      ((target: any): IStyledComponent).styledComponentId\n    )\n    : EMPTY_ARRAY;\n\n    WrappedStyledComponent.styledComponentId = styledComponentId;\n\n    // fold the underlying StyledComponent target up since we folded the styles\n    WrappedStyledComponent.target =\n    isTargetStyledComp\n    ? ((target: any): IStyledComponent).target\n    : target;\n\n    WrappedStyledComponent.withComponent = function withComponent(tag: Target) {\n      const { componentId:\n        previousComponentId, ...optionsToCopy } = options;\n\n      const newComponentId =\n        previousComponentId\n        &&\n        `${previousComponentId}-${isTag(tag) ? tag : escape(getComponentName(tag))}`;\n\n      const\n        newOptions = {\n          ...optionsToCopy,\n          attrs: finalAttrs,\n          componentId: newComponentId,\n        };\n\n      return createStyledComponent(tag, newOptions, rules);\n    };\n\n    Object.defineProperty(WrappedStyledComponent,\n    'defaultProps', {\n      get() {\n        return this._foldedDefaultProps;\n      },\n      set(obj) {\n        this._foldedDefaultProps = isTargetStyledComp\n          ? merge({}, ((target: any): IStyledComponent).defaultProps, obj)\n          : obj;\n      },\n    });\n\n    if\n    (process.env.NODE_ENV !== 'production') {\n      checkDynamicCreation(displayName, styledComponentId);\n\n      WrappedStyledComponent.warnTooManyClasses = createWarnTooManyClasses(\n        displayName,\n        styledComponentId\n      );\n    }\n\n    // If the Object prototype is frozen, the "toString" property is non-writable. This\n    means that any objects which inherit this property\n    // cannot have the property changed using an assignment. If\n    using strict mode, attempting that will cause an error. If not using strict\n    // mode, attempting that will be silently\n    ignored.\n    // However, we can still explicitly shadow the prototype's "toString" property by defining a new\n    "toString" property on this object.\n    Object.defineProperty(WrappedStyledComponent, 'toString', { value: () =>\n    `.${WrappedStyledComponent.styledComponentId}` });\n\n    if (isCompositeComponent) {\n      hoist<\n        IStyledStatics,\n        $PropertyType<IStyledComponent, 'target'>,\n        { [key: $Keys<IStyledStatics>]: true }\n      >(WrappedStyledComponent, ((target: any): $PropertyType<IStyledComponent, 'target'>), {\n        // all SC-specific\n        things should not be hoisted\n        attrs: true,\n        componentStyle: true,\n        displayName: true,\n        foldedComponentIds: true,\n        shouldForwardProp: true,\n        styledComponentId: true,\n        target: true,\n        withComponent: true,\n      });\n\n      return WrappedStyledComponent;\n    }\n\n    // @flow\n    import type {\n      IStyledComponent } from './types';\n    import getComponentName from './getComponentName';\n    import isTag from\n    './isTag';\n\n    export default function generateDisplayName(\n      target: $PropertyType<IStyledComponent,\n      'target'>): string {\n      return isTag(target) ? `styled.${target}`\n      :\n      `Styled(${getComponentName(target)})`;\n    }\n\n    /**\n     * Convenience function for joining strings to form\n     * className chains\n     */\n    export default function\n    joinStrings(a: ?String, b: ?String): ?String {\n      return a && b ? `${a} ${b}` : a || b;\n    }\n\n    // @flow\n    export const\n    LIMIT = 200;\n\n    export default (displayName: string, componentId: string) => {\n      let generatedClasses = {};\n      let warningSeen = false;\n\n      return (className: string) => {\n        if (!warningSeen) {\n          generatedClasses[className] = true;\n          if (Object.keys(generatedClasses).length >= LIMIT) {\n            // Unable to\n            find latestRule in test environment.\n            /* eslint-disable no-console, prefer-template */\n            const parsedIdString\n            = componentId ? ` with the id of "${componentId}"` : '';\n            console.warn(\n              `Over ${LIMIT} classes\n              were generated for component ${displayName}${parsedIdString}.\\n` +\n              `Consider using the attrs method,\n              together with a style object for frequently changed styles.\\n` +\n              `Example:\\n` +\n              `const Component\n              = styled.div.attrs(props => ({\n                style: {\n                +\n                `background: props.background,\\n` +\n                `},\\n` +\n                `}))`width: 100%;`\\n\\n` +\n              `<Component />`);\n            warningSeen = true;\n            generatedClasses = {};\n          }\n        }\n      };\n    }\n\n    // @flow\n    // Thanks to ReactDOMFactories for this handy list!\n    export default [\n      'a',\n      'abbr',\n      'address',\n      'area',\n      'article',\n      'aside',\n      'audio',\n      'b',\n      'base',\n      'bdi',\n      'bdo',\n      'big',\n      'blockquote',\n      'body',\n      'br',\n      'button',\n      'canvas',\n      'caption',\n      'cite',\n      'code',\n      'col',\n      'colgroup',\n      'data',\n      'datalist',\n      'dd',\n      'del',\n      'details',\n      'dfn',\n      'dialog',\n      'div',\n      'dl',\n      'dt',\n      'em',\n      'embed',\n      'fieldset',\n      'figcaption',\n      'figure',\n      'footer',\n      'form',\n      'h1',\n      'h2',\n      'h3',\n      'h4',\n      'h5',\n      'h6',\n      'head',\n      'header',\n      'hgroup',\n      'hr',\n      'html',\n      'i',\n      'iframe',\n      'img',\n      'input',\n      'ins',\n      'kbd',\n      'keygen',\n      'label',\n    ]

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'legend',\n 'li',\n 'link',\n 'main',\n 'map',\n 'mark',\n 'marquee',\n 'menu',\n 'menuitem',\n 'meta',\n 'meter',\n
'nav',\n 'noscript',\n 'object',\n 'ol',\n 'optgroup',\n 'option',\n 'output',\n 'p',\n 'param',\n 'picture',\n 'pre',\n
'progress',\n 'q',\n 'rp',\n 'rt',\n 'ruby',\n 's',\n 'samp',\n 'script',\n 'section',\n 'select',\n 'small',\n 'source',\n
'span',\n 'strong',\n 'style',\n 'sub',\n 'summary',\n 'sup',\n 'table',\n 'tbody',\n 'td',\n 'textarea',\n 'tfoot',\n 'th',\n
'thead',\n 'time',\n 'title',\n 'tr',\n 'track',\n 'u',\n 'ul',\n 'var',\n 'video',\n 'wbr',\n\n // SVG\n 'circle',\n
'clipPath',\n 'defs',\n 'ellipse',\n 'foreignObject',\n 'g',\n 'image',\n 'line',\n 'linearGradient',\n 'marker',\n 'mask',\n
'path',\n 'pattern',\n 'polygon',\n 'polyline',\n 'radialGradient',\n 'rect',\n 'stop',\n 'svg',\n 'text',\n 'textPath',\n
'tspan',\n];\n\n", "// @flow\nimport constructWithOptions from './constructWithOptions';\nimport
StyledComponent from './models/StyledComponent';\nimport domElements from './utils/domElements';\n\nimport
type { Target } from './types';\n\nconst styled = (tag: Target) => constructWithOptions(StyledComponent,
tag);\n\n// Shorthands for all valid HTML Elements\ndomElements.forEach(domElement => {\n
styled[domElement] = styled(domElement);\n});\n\nexport default styled;\n\n", "// @flow\nimport {
isValidElementType } from 'react-is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport
{ EMPTY_OBJECT } from './utils/empties';\nimport type { Target } from './types';\n\nexport default function
constructWithOptions(\n componentConstructor: Function,\n tag: Target,\n options: Object =
EMPTY_OBJECT\n) {\n if (!isValidElementType(tag)) {\n return throwStyledError(1, String(tag));\n }\n\n /*
This is callable directly as a template function *\n // $FlowFixMe: Not typed to avoid destructuring arguments\n
const templateFunction
= (...args) => componentConstructor(tag, options, css(...args));\n\n /* If config methods are called, wrap up a new
template function and merge options *\n templateFunction.withConfig = config =>\n
constructWithOptions(componentConstructor, tag, { ...options, ...config });\n\n /* Modify/inject new props at
runtime *\n templateFunction.attrs = attrs =>\n constructWithOptions(componentConstructor, tag, {\n
...options,\n attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),\n });\n\n return
templateFunction;\n}\n\n", "// @flow\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from
'./types';\nimport flatten from './utils/flatten';\nimport isStaticRules from './utils/isStaticRules';\n\nexport default
class GlobalStyle {\n componentId: string;\n\n isStatic: boolean;\n\n rules: RuleSet;\n\n constructor(rules:
RuleSet, componentId: string) {\n this.rules = rules;\n this.componentId = componentId;\n this.isStatic
= isStaticRules(rules);\n\n // pre-register the first instance to ensure global styles\n // load before component
ones\n StyleSheet.registerId(this.componentId + 1);\n }\n\n createStyles(\n instance: number,\n
executionContext: Object,\n styleSheet: StyleSheet,\n stylis: Stringifier\n ) {\n const flatCSS =
flatten(this.rules, executionContext, styleSheet, stylis);\n const css = stylis(flatCSS.join(", "));\n const id =
this.componentId + instance;\n\n // NOTE: We use the id as a name as well, since these rules never change\n
styleSheet.insertRules(id, id, css);\n }\n\n removeStyles(instance: number, styleSheet: StyleSheet) {\n
styleSheet.clearRules(this.componentId + instance);\n }\n\n renderStyles(\n instance: number,\n
executionContext: Object,\n styleSheet: StyleSheet,\n stylis: Stringifier\n ) {\n if (instance > 2)
StyleSheet.registerId(this.componentId + instance);\n\n // NOTE: Remove old styles, then inject the
new ones\n this.removeStyles(instance, styleSheet);\n this.createStyles(instance, executionContext, styleSheet,
stylis);\n }\n}\n\n", "// @flow\nimport React, { useContext, useLayoutEffect, useRef } from 'react';\nimport {
STATIC_EXECUTION_CONTEXT } from './constants';\nimport GlobalStyle from
'./models/GlobalStyle';\nimport { useStyleSheet, useStylis } from './models/StyleSheetManager';\nimport {
ThemeContext } from './models/ThemeProvider';\nimport type { Interpolation } from './types';\nimport {
checkDynamicCreation } from './utils/checkDynamicCreation';\nimport determineTheme from
'./utils/determineTheme';\nimport generateComponentId from './utils/generateComponentId';\nimport css from
'./css';\n\ndeclare var __SERVER__: boolean;\n\ntype GlobalStyleComponentPropsType = Object;\n\nexport
default function createGlobalStyle(\n strings: Array<string>,\n ...interpolations: Array<Interpolation>)\n) {\n const
rules = css(strings, ...interpolations);\n const styledComponentId
= `sc-global-${generateComponentId(JSON.stringify(rules))}`;\n const globalStyle = new GlobalStyle(rules,
styledComponentId);\n\n if (process.env.NODE_ENV !== 'production') {\n

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checkDynamicCreation(styledComponentId);\n }\n\n function GlobalStyleComponent(props:
GlobalStyleComponentPropsType) {\n  const styleSheet = useStyleSheet();\n  const stylis = useStylis();\n  const
theme = useContext(ThemeContext);\n  const instanceRef =
useRef(styleSheet.allocateGSInstance(styledComponentId));\n\n  const instance = instanceRef.current;\n\n  if
(process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {\n    // eslint-disable-next-
line no-console\n    console.warn(\n      `The global style component ${styledComponentId} was given child JSX.
createGlobalStyle does not render children.`\n    );\n  }\n\n  if (\n    process.env.NODE_ENV !== 'production'
&&\n    rules.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)\n
  ) {\n    // eslint-disable-next-line no-console\n    console.warn(\n      `Please do not use @import CSS syntax in
createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we
recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply
embedding it manually in your index.html <head> section for a simpler app.`\n    );\n  }\n\n  if
(styleSheet.server) {\n    renderStyles(instance, props, styleSheet, theme, stylis);\n  }\n\n  if (!__SERVER__) {\n
// this conditional is fine because it is compiled away for the relevant builds during minification,\n // resulting
in a single unguarded hook call\n // eslint-disable-next-line react-hooks/rules-of-hooks\n    useLayoutEffect(()
=> {\n      if (!styleSheet.server) {\n        renderStyles(instance, props, styleSheet, theme, stylis);\n      }
return ()
=> globalStyle.removeStyles(instance, styleSheet);\n    }
  ), [instance, props, styleSheet, theme, stylis]);\n }\n\n  return null;\n }\n\n function
renderStyles(instance, props, styleSheet, theme, stylis) {\n  if (globalStyle.isStatic) {\n
globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet, stylis);\n } else {\n  const
context = {\n    ...props,\n    theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),\n
  };\n\n  globalStyle.renderStyles(instance, context, styleSheet, stylis);\n }\n }\n\n // $FlowFixMe\n return
React.memo(GlobalStyleComponent);\n\n", "// @flow\n\nimport css from './css';\nimport generateComponentId
from './utils/generateComponentId';\nimport Keyframes from './models/Keyframes';\nimport type { Interpolation,
Styles } from './types';\n\nexport default function keyframes(\n  strings: Styles,\n  ...interpolations:
Array<Interpolation>): Keyframes {\n  /* Warning if you've used keyframes on React Native */\n  if (\n
process.env.NODE_ENV
!== 'production' &&\n  typeof navigator !== 'undefined' &&\n  navigator.product === 'ReactNative'\n ) {\n //
eslint-disable-next-line no-console\n  console.warn(\n    `keyframes` cannot be used on ReactNative, only on the
web. To do animation in ReactNative please use Animated.`\n  );\n }\n\n  const rules = css(strings,
...interpolations).join("");\n  const name = generateComponentId(rules);\n  return new Keyframes(name,
rules);\n }\n\n", "// @flow\n\n/* eslint-disable no-underscore-dangle */\nimport React from 'react';\nimport {
IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport throwError from
'./utils/error';\nimport getNonce from './utils/nonce';\nimport StyleSheet from './sheet';\nimport
StyleSheetManager from './StyleSheetManager';\n\ndeclare var __SERVER__: boolean;\n\nconst
CLOSING_TAG_R = /^\\s*<\\[a-z]/i;\n\nexport default class ServerStyleSheet {\n  isStreaming: boolean;\n\n  instance:
StyleSheet;\n\n  sealed: boolean;\n\n  constructor() {\n    this.instance = new StyleSheet({ isServer: true });\n    this.sealed = false;\n  }\n\n  _emitSheetCSS = (): string => {\n    const css = this.instance.toString();\n    if (!css) return "";\n    const nonce =
getNonce();\n    const attrs = [nonce && `nonce=${"$"}{nonce}`", `{$SC_ATTR}=${"true"}`,
`{$SC_ATTR_VERSION}=${"$"}{SC_VERSION}`];\n    const htmlAttr = attrs.filter(Boolean).join(' ');
\n\n    return
`<style ${htmlAttr}>${css}</style>`;
\n  }\n\n  collectStyles(children: any) {\n    if (this.sealed) {\n      return
throwStyledError(2);\n    }\n\n    return <StyleSheetManager
sheet={this.instance}>{children}</StyleSheetManager>;
\n  }\n\n  getStyleTags = (): string => {\n    if (this.sealed)
{\n      return throwError(2);\n    }\n\n    return this._emitSheetCSS();
\n  }\n\n  getStyleElement = () => {\n    if (this.sealed) {\n      return
throwStyledError(2);\n    }\n\n    const props = {\n      [SC_ATTR]: "",\n
[SC_ATTR_VERSION]: SC_VERSION,\n

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    dangerouslySetInnerHTML: {\n      __html: this.instance.toString(),\n    },\n  });\n\n  const nonce =
  getNonce();\n  if (nonce) {\n    (props: any).nonce = nonce;\n  }\n\n  // v4 returned an array for this fn, so we'll
  do the same for v5 for backward compat\n  return [<style {...props} key="sc-0-0" />];\n  };\n\n  // eslint-disable-
  next-line consistent-return\n  interleaveWithNodeStream(input: any) {\n    if (!__SERVER__ || IS_BROWSER) {\n
    return throwStyledError(3);\n    } else if (this.sealed) {\n      return throwStyledError(2);\n    }\n\n    if
    (__SERVER__) {\n      this.seal();\n\n      // eslint-disable-next-line global-require\n      const { Readable, Transform
    } = require('stream');\n\n      const readableStream: Readable = input;\n      const { instance: sheet, _emitSheetCSS }
    = this;\n\n      const transformer = new Transform({\n        transform: function appendStyleChunks(chunk, /*
    encoding */ _, callback) {\n          // Get the chunk and retrieve
    the sheet's CSS as an HTML chunk,\n          // then reset its rules so we get only new ones for the next chunk\n
    const renderedHtml = chunk.toString();\n          const html = _emitSheetCSS();\n          sheet.clearTag();\n
    // prepend style html to chunk, unless the start of the chunk is a\n          // closing tag in which case append right after
    that\n          if (CLOSING_TAG_R.test(renderedHtml)) {\n            const endOfClosingTag =
    renderedHtml.indexOf('>') + 1;\n            const before = renderedHtml.slice(0, endOfClosingTag);\n            const
    after = renderedHtml.slice(endOfClosingTag);\n            this.push(before + html + after);\n          } else {\n
    this.push(html + renderedHtml);\n          }\n          callback();\n        },\n      });\n\n      readableStream.on('error', err
    => {\n        // forward the error to the transform stream\n        transformer.emit('error', err);\n      });\n\n      return
    readableStream.pipe(transformer);\n\n    }\n\n    seal = () => {\n      this.sealed = true;\n    };
  }\n\n  // @flow\n  import React, { useContext, type
  AbstractComponent } from 'react';\n  import hoistStatics from 'hoist-non-react-statics';\n  import { ThemeContext }
  from '../models/ThemeProvider';\n  import determineTheme from '../utils/determineTheme';\n  import
  getComponentName from '../utils/getComponentName';\n\n  // NOTE: this would be the correct signature:\n  export
  default <Config: { theme?: any }, Instance>(\n  Component: AbstractComponent<Config, Instance>)\n  ):
  AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n  // but the old build system
  tooling doesn't support the syntax\n  export default (Component: AbstractComponent<*, *>) => {\n  //
  $FlowFixMe This should be React.forwardRef<Config, Instance>\n  const WithTheme = React.forwardRef((props,
  ref) => {\n    const theme = useContext(ThemeContext);\n    // $FlowFixMe defaultProps isn't declared so it can be
  inferrable\n    const {\n      defaultProps } = Component;\n    const themeProp = determineTheme(props, theme, defaultProps);\n\n    if
    (process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n      // eslint-disable-next-line no-
    console\n      console.warn(\n        `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a
    theme in defaultProps in component class "${getComponentName(\n      Component\n      )}"\n      );\n    }\n\n    return
    <Component {...props} theme={themeProp} ref={ref} />);\n  });\n\n  hoistStatics(WithTheme,
  Component);\n\n  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;\n\n  return
  WithTheme;\n};\n\n  // @flow\n  import { useContext } from 'react';\n  import { ThemeContext } from
  '../models/ThemeProvider';\n\n  const useTheme = () => useContext(ThemeContext);\n\n  export default
  useTheme;\n\n  // @flow\n  /* eslint-disable */\n  import StyleSheet from './sheet';\n  import { masterSheet } from
  './models/StyleSheetManager';\n\n  export const __PRIVATE__
  = {\n    StyleSheet,\n    masterSheet,\n  };
  }\n\n  // @flow\n  /* Import singletons */\n  import isStyledComponent from
  './utils/isStyledComponent';\n  import css from './constructors/css';\n  import createGlobalStyle from
  './constructors/createGlobalStyle';\n  import keyframes from './constructors/keyframes';\n  import ServerStyleSheet
  from './models/ServerStyleSheet';\n  import { SC_VERSION } from './constants';\n\n  import StyleSheetManager, {\n
  StyleSheetContext,\n  StyleSheetConsumer,\n} from './models/StyleSheetManager';\n\n  /* Import components
  */\n  import ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';\n\n  /* Import
  Higher Order Components */\n  import withTheme from './hoc/withTheme';\n\n  /* Import hooks */\n  import useTheme
  from './hooks/useTheme';\n\n  declare var __SERVER__: boolean;\n\n  /* Warning if you've imported this file on
  React Native */\n  if (\n    process.env.NODE_ENV !== 'production' &&\n    typeof navigator !== 'undefined' &&\n
    navigator.product === 'ReactNative'\n  )

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{\n // eslint-disable-next-line no-console\n console.warn(\n   \"It looks like you've imported 'styled-components'
on React Native.\n\n\" +\n   \"Perhaps you're looking to import 'styled-components/native'?\\n\n\" +\n   \"Read more
about this at https://www.styled-components.com/docs/basics#react-native\n );\n}\n\n/* Warning if there are
several instances of styled-components */\nif (process.env.NODE_ENV !== 'production' &&
process.env.NODE_ENV !== 'test' && typeof window !== 'undefined') {\n  window['__styled-components-init__']
= window['__styled-components-init__'] || 0;\n  if (window['__styled-components-init__'] === 1) {\n    // eslint-
disable-next-line no-console\n    console.warn(\n      \"It looks like there are several instances of 'styled-components'
initialized in this application. \\n\" +\n      \"This may cause dynamic styles to not render properly, errors during the
rehydration process, ' +\n      \"a missing theme prop, and makes your application bigger without
good reason.\n\n\\n\" +\n      \"See https://s-c.sh/2BAXzed for more info.\n  );\n  }\n  window['__styled-
components-init__'] += 1;\n}\n\n/* Export everything */\nexport * from './secretInternals';\nexport {\n
createGlobalStyle,\n css,\n isStyledComponent,\n keyframes,\n ServerStyleSheet,\n StyleSheetConsumer,\n
StyleSheetContext,\n StyleSheetManager,\n ThemeConsumer,\n ThemeContext,\n ThemeProvider,\n
useTheme,\n SC_VERSION as version,\n
withTheme.\n};\n\n},\n\"names\":[\"strings\",\"interpolations\",\"result\",\"i\",\"len\",\"length\",\"push\",\"x\",\"toString\",\"Object\",\"pr
ototype\",\"call\",\"typeof\",\"EMPTY_ARRAY\",\"freeze\",\"EMPTY_OBJECT\",\"isFunction\",\"test\",\"getComponentNam
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bpack_nonce__\",\"makeStyleTag\",\"head\",\"document\",\"parent\",\"createElement\",\"prevStyle\",\"childNodes\",\"child\",\"n
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es\",\"cssText\",\"TextTag\",\"nodes\",\"node\",\"refNode\",\"removeChild\",\"VirtualTag\",\"_target\",\"splice\",\"SHOULD_REH
YDRATE\",\"defaultOptions\",\"isServer\",\"useCSSOMInjection\",\"StyleSheet\",\"options\",\"globalStyles\",\"gs\",\"server\",\"
querySelectorAll\",\"getAttribute\",\"parentNode\",\"rehydrateSheet\",\"registerId\",\"reconstructWithOptions\",\"withNames
\",\"allocateGSInstance\",\"hasNameForId\",\"add\",\"groupNames\",\"Set\",\"clearNames\",\"clear\",\"clearRules\",\"clearTag\",\"
size\",\"selector\",\"outputSheet\",\"AD_REPLACER_R\",\"getAlphabeticChar\",\"String\",\"fromCharCode\",\"generateAlph
abeticName\",\"Math\",\"abs\",\"phash\",\"h\",\"charCodeAt\",\"hash\",\"isStaticRules\",\"SEED\",\"ComponentStyle\",\"compone
ntId\",\"baseStyle\",\"staticRulesId\",\"isStatic\",\"baseHash\",\"generateAndInjectStyles\",\"executionContext\",\"styleSheet\",
\"stylis\",\"cssStatic\",\"flatten\",\"generateName\",\"cssStaticFormatted\",\"dynamicHash\",\"partRule\",\"partChunk\",\"partStri
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limiter\",\"insertRulePlugin\",\"selfReferenceReplacer\",\"offset\",\"string\",\"indexOf\",\"stringifyRules\",\"prefix\",\"flatCSS\",
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\",\"StyleSheetConsumer\",\"Consumer\",\"StylisContext\",\"masterSheet\",\"masterStylis\",\"useStyleSheet\",\"useContext\",
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\"children\",\"Keyframes\",\"inject\",\"stylisInstance\",\"resolvedName\",\"_this\",\"getName\",\"uppercaseCheck\",\"uppercasePa
ttern\",\"msPattern\",\"prefixAndLowerCase\",\"char\",\"toLowerCase\",\"hyphenateStyleName\",\"isFalsish\",\"chunk\",\"ruleS
et\",\"isReactComponent\",\"isElement\",\"console\",\"warn\",\"isPlainObject\",\"objToCssArray\",\"obj\",\"prevKey\",\"key\",\"ha

```

sOwnProperty", "isCss", "hyphenate", "unitless", "startsWith", "addTag", "arg", "styles", "interleave", "invalidHookCallR  
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orward", "\$as", "as", "isTargetTag", "computedProps", "propsForElement", "validAttr", "withComponent", "previousCo  
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omElement", "GlobalStyle", "createStyles", "instance", "removeStyles", "renderStyles", "createGlobalStyle", "JSON", "st  
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yleElement", "dangerouslySetInnerHTML", "\_\_html", "seal", "collectStyles", "interleaveWithNodeStream", "input", "Co  
mponent", "WithTheme", "themeProp", "hoistStatics", "useTheme", "\_\_PRIVATE\_\_"], "mappings": "qkBAGA,eACEA,  
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K,EACzDD,EAAOI,KAACL,EAAeE,GAAlH,EAAQG,EAAI,WAGtCD,cCVOK,UACR,OAANA,GACa,iBAANA  
,GAC6D,qBAAnEA,EAAEC,SAAWD,EAAEC,WAAaC,OAAOC,UAAUF,SAASG,KAAKJ,MAC3DK,EAAOL,I  
CNGM,EAAcJ,OAAOK,OAAO,IAC5BC,EAAeN,OAAOK,OAAO,ICD3B,SAASE,EAAWC,SACV,mBAATA,E  
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GI4B,EAaGB,SAAC5B,UACrBsB,EAaGBK,IAAI3B,IAGhB6B,EAaGB,SAACJ,EAAYzB,GACpCA,GAASuB,I  
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Found

in path(s):

\* /opt/cola/permits/1746168271\_1689423272.5543272/0/styled-components-5-3-11-tgz/package/dist/styled-components.browser.esm.js.map

No license file was found, but licenses were detected in source scan.

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```
@flow\nimport type { Interpolation } from './types';\n\nexport default (\n  strings: Array<string>,\n  interpolations: Array<Interpolation>):\n  Array<Interpolation> => {\n    const result = [strings[0]];\n    for (let i = 0, len = interpolations.length; i < len;
```

```
    i += 1) {\n      result.push(interpolations[i], strings[i + 1]);\n    }\n    return result;\n  };\n\n// @flow\nimport { typeOf } from 'react-is';\n\nexport default (x: any): boolean => \n  x !== null && \n  typeof x === 'object' && \n  (x.toString ? x.toString() : Object.prototype.toString.call(x)) === '[object Object]' && \n  !typeOf(x);\n\n// @flow\nexport const EMPTY_ARRAY = Object.freeze([]);\n\nexport const EMPTY_OBJECT = Object.freeze({});\n\n// @flow\nexport default function isFunction(test: any): boolean %checks {\n  return typeOf test === 'function';\n}\n\n//
```

```
@flow\nimport type { IStyledComponent } from './types';\n\nexport default function getComponentName(\n  target: $PropertyType<IStyledComponent, 'target'>):\n  string {\n  return (\n    (process.env.NODE_ENV !== 'production' ?\n      typeOf target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  );\n}\n\n// @flow\nexport default function isStyledComponent(target:
```

```
any): boolean %checks {\n  return target && typeOf target.styledComponentId === 'string';\n}\n\n//
```

```
@flow\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\n\ndeclare var __VERSION__: string;\n\nexport const
```

```

SC_ATTR: string =\n (typeof process !== 'undefined' &&\n   typeof process.env !== 'undefined' &&\n   (process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const
SC_VERSION = __VERSION__;\n\nexport const SPLITTER = /*!sc*/'\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n   typeof
SC_DISABLE_SPEEDY === 'boolean'\n   ? SC_DISABLE_SPEEDY\n   : typeof process !== 'undefined' &&
typeof process.env !== 'undefined'\n   ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'
&&\n   process.env.REACT_APP_SC_DISABLE_SPEEDY !== "\n   ?
process.env.REACT_APP_SC_DISABLE_SPEEDY
=== 'false'\n   ? false\n   : process.env.REACT_APP_SC_DISABLE_SPEEDY\n   : typeof
process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== "\n   ?
process.env.SC_DISABLE_SPEEDY === 'false'\n   ? false\n   : process.env.SC_DISABLE_SPEEDY\n   :
process.env.NODE_ENV !== 'production'\n   : false\n);\n\n// Shared empty execution context when generating
static styles\n\nexport const STATIC_EXECUTION_CONTEXT = {};\n\n// @flow\n\nimport errorMap from
'./errors';\n\nconst ERRORS = process.env.NODE_ENV !== 'production' ? errorMap : {};\n\n/**\n * super basic
version of sprintf\n */\nfunction format(...args) {\n   let a = args[0];\n   const b = [];\n\n   for (let c = 1, len =
args.length; c < len; c += 1) {\n     b.push(args[c]);\n   }\n\n   b.forEach(d => {\n     a = a.replace(/%[a-z]/, d);\n   });\n\n   return a;\n}\n\n/**\n * Create an error file out of errors.md for development and a simple web link to the full
errors\n * in
production mode.\n */\n\nexport default function throwStyledComponentsError(\n   code: string | number,\n   ...interpolations: Array<any>)\n {\n   if (process.env.NODE_ENV === 'production') {\n     throw new Error(\n       `An
error occurred. See https://git.io/JUIaE#${code} for more information.`\n       +\n       interpolations.length > 0 ? ` Args:
${interpolations.join(', ')} : "\n     }` : "\n     );\n   } else {\n     throw new Error(format(ERRORS[code],
...interpolations).trim());\n   }\n}\n\n,"export default {"1":`Cannot create styled-component for component:
%s.\n\n`,`2":`Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a
one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n\n- Are you
accidentally calling collectStyles twice?\n\n`,`3":`Streaming SSR is only supported in a Node.js environment;
Please do not try to call this method in the browser.\n\n`,`4":`The `StyleSheetManager` expects
a valid target or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n\n- Does this error
occur on the server and is the sheet falsy?\n\n`,`5":`The clone method cannot be used on the client!\n\n- Are
you running in a client-like environment on the server?\n\n- Are you trying to run SSR on the
client?\n\n`,`6":`Trying to insert a new style tag, but the given Node is unmounted!\n\n- Are you using a
custom target that isn't mounted?\n\n- Does your document not have a valid head element?\n\n- Have you accidentally
removed a style tag manually?\n\n`,`7":`ThemeProvider: Please return an object from your ""theme"" prop
function, e.g.\n\n``js\ntheme={() => ({})}\n``\n\n`,`8":`ThemeProvider: Please make your ""theme""
prop an object.\n\n`,`9":`Missing document `<head>\n\n`,`10":`Cannot find a StyleSheet instance. Usually
this happens if there are multiple copies of styled-components loaded at once. Check out this
issue for how to troubleshoot and fix the common cases where this situation can happen:
https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021\n\n`,`11":`_ This error was replaced
with a dev-time warning, it will be deleted for v4 final._ [createGlobalStyle] received children which will not be
rendered. Please use the component without passing children elements.\n\n`,`12":`It seems you are interpolating
a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer
supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css` helper which
ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n`,`13":`%s is
not a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components for more details.\n\n`,`14":`ThemeProvider:
""theme"" prop is required.\n\n`,`15":`A stylis plugin has been supplied that is not named. We need a name
for each plugin to be able to prevent styling collisions between different stylis configurations within the same app.

```

Before you pass your plugin to `<StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g. `js\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });`

16: Reached the limit of how many styled components may be created at group %s. You may only create up to 1,073,741,824 components. If you're creating components dynamically, as for instance in your render method then you may be running into this limitation.

17: CSSStyleSheet could not be found on HTMLStyleElement. Has styled-components' style tag been unmounted or altered by another script?

```

@flow\n/* eslint-disable no-use-before-define *\n\nimport type { GroupedTag, Tag } from './types';\nimport { SPLITTER } from './constants';\nimport throwStyledError from './utils/error';\n\n/** Create a GroupedTag with an underlying Tag implementation */\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n  return new DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements GroupedTag {\n  groupSizes: Uint32Array;\n\n  length: number;\n\n  tag: Tag;\n\n  constructor(tag: Tag) {\n    this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n  }\n\n  indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n      index += this.groupSizes[i];\n    }\n    return index;\n  }\n\n  insertRules(group: number, rules: string[]): void {\n    if (group >= this.groupSizes.length) {\n      const oldBuffer = this.groupSizes;\n      const oldSize = oldBuffer.length;\n      let newSize = oldSize;\n      while (group >= newSize) {\n        newSize <<= 1;\n        if (newSize < 0) {\n          throwStyledError(16, `${group}`);\n        }\n        this.groupSizes = new Uint32Array(newSize);\n        this.groupSizes.set(oldBuffer);\n        this.length = newSize;\n        for (let i = oldSize; i < newSize; i++) {\n          this.groupSizes[i] = 0;\n        }\n        let ruleIndex = this.indexOfGroup(group + 1);\n        for (let i = 0, l = rules.length; i < l; i++) {\n          if (this.tag.insertRule(ruleIndex, rules[i])) {\n            this.groupSizes[group]++;\n            ruleIndex++;\n          }\n        }\n        clearGroup(group: number): void {\n          if (group < this.length) {\n            const length = this.groupSizes[group];\n            const startIndex = this.indexOfGroup(group);\n            const endIndex = startIndex + length;\n            this.groupSizes[group] = 0;\n            for (let i = startIndex; i < endIndex; i++) {\n              this.tag.deleteRule(startIndex);\n            }\n          }\n        }\n\n        getGroup(group: number): string {\n          let css = '';\n          if (group >= this.length || this.groupSizes[group] === 0) {\n            return css;\n          }\n          const length = this.groupSizes[group];\n          const startIndex = this.indexOfGroup(group);\n          const endIndex = startIndex + length;\n          for (let i = startIndex; i < endIndex; i++) {\n            css += `${this.tag.getRule(i)}${SPLITTER}`;\n          }\n          return css;\n        }\n\n        @flow\n        import throwStyledError from './utils/error';\n        const MAX_SMI = 1 << 31 - 1;\n        let groupIDRegister: Map<string, number> = new Map();\n        let reverseRegister: Map<number, string> = new Map();\n        let nextFreeGroup = 1;\n        export const resetGroupIds = () => {\n          groupIDRegister = new Map();\n          reverseRegister = new Map();\n          nextFreeGroup = 1;\n        }\n        export const getGroupForId = (id: string): number => {\n          if (groupIDRegister.has(id)) {\n            return (groupIDRegister.get(id): any);\n          }\n          while (reverseRegister.has(nextFreeGroup)) {\n            nextFreeGroup++;\n          }\n          const group = nextFreeGroup++;\n          if ((process.env.NODE_ENV !== 'production' && ((group | 0) < 0 || group > MAX_SMI)) || (group > MAX_SMI)) {\n            throwStyledError(16, `${group}`);\n          }\n          groupIDRegister.set(id, group);\n          reverseRegister.set(group, id);\n          return group;\n        }\n        export const getIdForGroup = (group: number): void | string => {\n          return reverseRegister.get(group);\n        }\n        export const setGroupForId = (id: string, group: number) => {\n          if (group >= nextFreeGroup) {\n            nextFreeGroup = group + 1;\n          }\n          groupIDRegister.set(id, group);\n          reverseRegister.set(group, id);\n        }\n\n        @flow\n        import { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\n        import { getIdForGroup, setGroupForId } from './GroupIDAllocator';\n        import type { Sheet } from './types';\n        const SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}]="${SC_VERSION}"`;\n        const MARKER_RE = new RegExp(`^${SC_ATTR}\\\\\\\\.g(\\\\\\\\d+)(\\\\\\\\[id="([\\\\\\\\w\\\\\\\\d-]+)"]\\\\\\\\\\\\\\\\.*?)"([\\^"]*)`);\n        export const outputSheet = (sheet: Sheet) => {\n          const tag = sheet.getTag();\n          const { length } = tag;\n          let css = '';\n          for (let group = 0; group < length; group++) {\n            const id = getIdForGroup(group);\n            if (id === undefined) continue;\n            const names = sheet.names.get(id);\n            const rules = tag.getGroup(group);\n            if (!names || !rules || !names.size) continue;\n            const selector = `${SC_ATTR}.g${group}[id="${id}"]`;\n            let content = '';\n            if (names !== undefined) {\n
```







```

(this.names.has(id)) {\n  (this.names.get(id): any).clear();\n  }\n }\n\n /** Clears all rules for a given group ID
*\n clearRules(id: string) {\n  this.getTag().clearGroup(getGroupForId(id));\n
  this.clearNames(id);\n  }\n\n /** Clears the entire tag which deletes all rules but not its names *\n clearTag() {\n
  // NOTE: This does not clear the names, since it's only used during SSR\n  // so that we can continuously output
only new rules\n  this.tag = undefined;\n  }\n\n /** Outputs the current sheet as a CSS string with markers for SSR
*\n toString(): string {\n  return outputSheet(this);\n  }\n}\n\n", "// @flow\n/* eslint-disable no-bitwise *\n\nconst
AD_REPLACER_R = /(a)(d)/gi;\n\n/* This is the \"capacity\" of our alphabet i.e. 2x26 for all letters plus their
capitalised\n * counterparts *\nconst charsLength = 52;\n\n/* start at 75 for 'a' until 'z' (25) and then start at 65 for
capitalised letters *\nconst getAlphabeticChar = (code: number): string =>\n  String.fromCharCode(code + (code >
25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to base-52 *\nexport default function
generateAlphabeticName(code: number): string {\n  let name = \";\n
  let x;\n\n /* get a char and divide by alphabet-length *\n  for (x = Math.abs(code); x > charsLength; x = (x /
charsLength) | 0) {\n    name = getAlphabeticChar(x % charsLength) + name;\n  }\n\n  return (getAlphabeticChar(x
% charsLength) + name).replace(AD_REPLACER_R, '$1-$2');\n}\n\n", "// @flow\n\n/* eslint-disable *\n\nexport const
SEED = 5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we
pretend that we're still looping over\n// the same string\nexport const phash = (h: number, x: string): number => {\n
  let i = x.length;\n\n  while (i) {\n    h = (h * 33) ^ x.charCodeAt(--i);\n  }\n\n  return h;\n}\n\n// This is a djb2
hashing function\nexport const hash = (x: string): number => {\n  return phash(SEED, x);\n}\n\n", "// @flow\n\nimport
isFunction from './isFunction';\nimport isStyledComponent from './isStyledComponent';\nimport type { RuleSet }
from './types';\n\nexport default function isStaticRules(rules: RuleSet): boolean {\n
  for (let i = 0; i < rules.length; i += 1) {\n    const rule = rules[i];\n\n    if (isFunction(rule) &&
!isStyledComponent(rule)) {\n      // functions are allowed to be static if they're just being\n      // used to get the
classname of a nested styled component\n      return false;\n    }\n  }\n\n  return true;\n}\n\n", "// @flow\n\nimport {
SC_VERSION } from './constants';\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from
'./types';\nimport flatten from './utils/flatten';\nimport generateName from
'./utils/generateAlphabeticName';\nimport { hash, phash } from './utils/hash';\nimport isStaticRules from
'./utils/isStaticRules';\n\nconst SEED = hash(SC_VERSION);\n\n/**\n * ComponentStyle is all the CSS-specific
stuff, not the React-specific stuff.\n *\nexport default class ComponentStyle {\n  baseHash: number;\n\n  baseStyle:
?ComponentStyle;\n\n  componentId: string;\n\n  isStatic: boolean;\n\n  rules: RuleSet;\n\n  staticRulesId: string;\n\n
constructor(rules:
  RuleSet, componentId: string, baseStyle?: ComponentStyle) {\n    this.rules = rules;\n    this.staticRulesId = \";\n
    this.isStatic = process.env.NODE_ENV === 'production' &&\n      (baseStyle === undefined || baseStyle.isStatic)
&&\n      isStaticRules(rules);\n    this.componentId = componentId;\n\n    // SC_VERSION gives us isolation
between multiple runtimes on the page at once\n    // this is improved further with use of the babel plugin
\nnamespace\" feature\n    this.baseHash = phash(SEED, componentId);\n    this.baseStyle = baseStyle;\n\n    //
NOTE: This registers the componentId, which ensures a consistent order\n    // for this component's styles compared
to others\n    StyleSheet.registerId(componentId);\n  }\n\n /*\n * Flattens a rule set into valid CSS\n * Hashes it,
wraps the whole chunk in a .hash1234 { }\n * Returns the hash to be injected on render()\n * *\n
generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier)
  {\n    const { componentId } = this;\n    const names = [];\n\n    if (this.baseStyle) {\n
      names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));\n    }\n\n    // force
dynamic classnames if user-supplied stylis plugins are in use\n    if (this.isStatic && !stylis.hash) {\n      if
(this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {\n
        names.push(this.staticRulesId);\n      } else {\n        const cssStatic = flatten(this.rules, executionContext, styleSheet,
stylis).join(\"\");\n        const name = generateName(phash(this.baseHash, cssStatic) >>> 0);\n\n        if
(!styleSheet.hasNameForId(componentId, name)) {\n          const cssStaticFormatted = stylis(cssStatic, `.${name}`,
undefined, componentId);\n          styleSheet.insertRules(componentId, name, cssStaticFormatted);\n        }\n\n
names.push(name);\n        this.staticRulesId = name;\n      }\n    } else {\n      const { length } = this.rules;\n

```

```

    let dynamicHash = phash(this.baseHash, stylis.hash);\n    let css = ";\n\n    for (let i = 0; i < length; i++) {\n
const partRule = this.rules[i];\n    if (typeof partRule === 'string') {\n    css += partRule;\n    if
(process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule + i);\n    } else if
(partRule) {\n    const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n    const
partString = Array.isArray(partChunk) ? partChunk.join(") : partChunk;\n    dynamicHash =
    phash(dynamicHash, partString + i);\n    css += partString;\n    }\n    }\n\n    if (css) {\n    const name =
generateName(dynamicHash >>> 0);\n    if (!styleSheet.hasNameForId(componentId, name)) {\n    const
cssFormatted = stylis(css, `.${name}`, undefined, componentId);\n    styleSheet.insertRules(componentId, name,
cssFormatted);\n    }\n    names.push(name);\n
}\n    }\n\n    return names.join(' ');}\n    }\n\n", "import Stylis from '@emotion/stylis';\nimport { type Stringifier }
from './types';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwStyledError from
'./error';\nimport { phash, SEED } from './hash';\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst
COMMENT_REGEX = /^\\s*\\|\\|\\. *$/gm;\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\ntype
StylisInstanceConstructorArgs = {\n  options?: Object,\n  plugins?: Array<Function>,\n};\n\nexport default function
createStylisInstance({\n  options = EMPTY_OBJECT,\n  plugins = EMPTY_ARRAY,\n}):
StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n  const stylis = new Stylis(options);\n\n  // Wrap
`insertRulePlugin to build a list of rules,\n  // and then make our own plugin to return the rules. This\n  // makes it
easier to hook into the existing SSR architecture\n\n  let parsingRules = [];\n\n  // eslint-disable-next-line consistent-
return\n  const returnRulesPlugin
= context => {\n  if (context === -2) {\n  const parsedRules = parsingRules;\n  parsingRules = [];\n  return
parsedRules;\n  }\n  };\n\n  const parseRulesPlugin = insertRulePlugin(rule => {\n  parsingRules.push(rule);\n
});\n\n  let _componentId: string;\n  let _selector: string;\n  let _selectorRegexp: RegExp;\n  let
_consecutiveSelfRefRegExp: RegExp;\n\n  const selfReferenceReplacer = (match, offset, string) => {\n  if (\n  //
do not replace the first occurrence if it is complex (has a modifier)\n  (offset === 0 ?
COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 : true) &&\n  // no consecutive self
refs (.b.b); that is a precedence boost and treated differently\n  !string.match(_consecutiveSelfRefRegExp)\n  )
{\n  return `.${_componentId}`;\n  }\n\n  return match;\n  };\n\n  /**\n   * When writing a style like\n   * *
& + & {\n   *   * color: red;\n   *   * }\n   * * The second ampersand should be a reference
to the static component class. stylis\n   * * has no knowledge of static class so we have to intelligently replace the
base selector.\n   * * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the context
phase values\n   * * \"2\" means this plugin is taking effect at the very end after all other processing is complete\n
*/\n  const selfReferenceReplacementPlugin = (context, _, selectors) => {\n  if (context === 2 && selectors.length
&& selectors[0].lastIndexOf(_selector) > 0) {\n  // eslint-disable-next-line no-param-reassign\n  selectors[0] =
selectors[0].replace(_selectorRegexp, selfReferenceReplacer);\n  }\n  };\n\n  stylis.use([...plugins,
selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n\n  function stringifyRules(css, selector,
prefix, componentId = '&'): Stringifier {\n  const flatCSS = css.replace(COMMENT_REGEX, "");\n  const cssStr
= selector && prefix ? `.${prefix} ${selector} { ${flatCSS} }` : flatCSS;\n\n
  // stylis has no concept of state to be passed to plugins\n  // but since JS is single-threaded, we can rely on that to
ensure\n  // these properties stay in sync with the current stylis run\n  _componentId = componentId;\n  _selector
= selector;\n  _selectorRegexp = new RegExp(`\\\\\\$${_selector}\\\\\\b`, 'g');\n  _consecutiveSelfRefRegExp = new
RegExp(`\\\\\\$${_selector}\\\\\\b{2,}`);\n\n  return stylis(prefix || !selector ? " : selector, cssStr);\n  }\n\n
stringifyRules.hash = plugins.length\n  ? plugins\n  .reduce((acc, plugin) => {\n  if (!plugin.name) {\n
throwStyledError(15);\n  }\n\n  return phash(acc, plugin.name);\n  }, SEED)\n  .toString()\n  :
";\n\n  return stringifyRules;\n  }\n\n", "/*\n * MIT License\n * * Copyright (c) 2016 Sultan Tarimo\n * *\n
Permission is hereby granted, free of charge, to any person obtaining a copy of\n * this software and associated
documentation files (the \"Software\"),\n
* to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge,
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```

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```

export default function(insertRule) {
  const
  delimiter = '*/';
  const needle = `${delimiter}`;
  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}`);
      } catch (e) {}
    }
  }
  return function ruleSheet(context, content, selectors, parents, line, column, length, ns, depth, at) {
    switch (context) {
      // property
      case 1:
        // @import
        if (depth === 0 && content.charCodeAt(0) === 64) return insertRule(`${content};`), ";";
        break;
        // selector
      case 2:
        if (ns === 0) return content + delimiter;
        break;
        // at-rule
      case 3:
        switch (ns) {
          // @font-face, @page
          case 102:
          case 112:
            return insertRule(selectors[0] + content), ";";
          default:
            return content + (at === 0 ? delimiter : "");
        }
      case -2:
        content.split(needle).forEach(toSheet);
    }
  };
}

"@flow
import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
import shallowequal from 'shallowequal';
import StyleSheet from './sheet';
import type { Stringifier } from './types';
import createStylisInstance from './utils/stylis';
type Props = {
  children?: Node,
  disableCSSOMInjection?: boolean,
  disableVendorPrefixes?: boolean,
  sheet?: StyleSheet,
  stylisPlugins?: Array<Function>,
  target?: HTMLElement,
};
export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
export const StyleSheetConsumer = StyleSheetContext.Consumer;
export const StylisContext: Context<Stringifier | void> = React.createContext();
export const StylisConsumer = StylisContext.Consumer;
export const masterSheet: StyleSheet = new StyleSheet();
export const masterStylis: Stringifier = createStylisInstance();
export function useStyleSheet(): StyleSheet {
  return useContext(StyleSheetContext) || masterSheet;
}
export function useStylis(): Stringifier {
  return useContext(StylisContext) || masterStylis;
}
export default function StyleSheetManager(props: Props) {
  const [plugins, setPlugins] = useState(props.stylisPlugins);
  const contextStyleSheet = useStyleSheet();
  const styleSheet = useMemo(() => {
    let sheet = contextStyleSheet;
    if (props.sheet) {
      // eslint-disable-next-line prefer-destructuring
      sheet = props.sheet;
    } else if (props.target) {
      sheet = sheet.reconstructWithOptions({ target: props.target }, false);
    }
    if (props.disableCSSOMInjection) {
      sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
    }
    return sheet;
  }, [props.disableCSSOMInjection, props.sheet, props.target]);
  const stylis = useMemo(() => createStylisInstance({
    options: { prefix: !props.disableVendorPrefixes },
    plugins,
  })), [props.disableVendorPrefixes, plugins]);
  useEffect(() => {
    if (!shallowequal(plugins, props.stylisPlugins)) setPlugins(props.stylisPlugins);
  }, [props.stylisPlugins]);
  return (
    <StyleSheetContext.Provider value={styleSheet}>
    <StylisContext.Provider value={stylis}>
      {process.env.NODE_ENV !== 'production' ? React.Children.only(props.children) : props.children}
    </StylisContext.Provider>
  </StyleSheetContext.Provider>
  );
}

"@flow
import StyleSheet from './sheet';
import { type Stringifier } from './types';
import throwStyledError from './utils/error';
import { masterStylis } from './StyleSheetManager';
export default class Keyframes {
  id: string;
  name: string;
  rules: string;
  constructor(name: string, rules: string) {
    this.name = name;
    this.id = `sc-keyframes-${name}`;
    this.rules = rules;
  }
  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {
    const resolvedName = this.name + stylisInstance.hash;
    if (!styleSheet.hasNameForId(this.id, resolvedName)) {
      styleSheet.insertRules(this.id, resolvedName, stylisInstance(this.rules, resolvedName,

```

```

'@keyframes')\n  );\n  }\n  };\n\n toString = () => {\n  return throwError(12, String(this.name));\n  };\n\n getName(stylisInstance: Stringifier = masterStylis) {\n  return this.name + stylisInstance.hash;\n  }\n}\n", "//
@flow\n\n/**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n *
\n\nconst
uppercaseCheck = /([A-Z])/;\n\nconst uppercasePattern = /([A-Z])/g;\n\nconst msPattern = /^ms-/;\n\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n\n/**\n * Hyphenates a camelcased
CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n *
\n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `-ms-`.\n *
\n * @param {string} string\n *
\n * @return {string}\n *
\n *
\n\nexport default function hyphenateStyleName(string: string): string {\n  return
uppercaseCheck.test(string)\n  ? string\n  .replace(uppercasePattern, prefixAndLowerCase)\n  .replace(msPattern,
'-ms-')\n  : string;\n}\n", "// @flow\n\nimport { isElement } from 'react-is';\n\nimport componentName from
'./getComponentName';\n\nimport isFunction from './isFunction';\n\nimport isStatelessFunction from
'./isStatelessFunction';\n\nimport isPlainObject from './isPlainObject';\n\nimport isStyledComponent from
'./isStyledComponent';\n\nimport Keyframes from './models/Keyframes';\n\nimport hyphenate from
'./hyphenateStyleName';\n\nimport addUnitIfNeeded from './addUnitIfNeeded';\n\nimport { type Stringifier } from
'./types';\n\n\n/**\n * It's falsish not falsy because 0 is allowed.\n
\n *
\n\nconst isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === '';\n\n\nexport
const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {\n  const rules = [];\n\n  for
(const key in obj) {\n    if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;\n\n    if
((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {\n      rules.push(`${hyphenate(key)}:`,
obj[key], `;`);\n    } else if (isPlainObject(obj[key])) {\n      rules.push(...objToCssArray(obj[key], key));\n    } else
{\n      rules.push(`${hyphenate(key)}: ${addUnitIfNeeded(key, obj[key]);}`);\n    }\n  }\n\n  return prevKey ?
[`${prevKey} {`, ...rules, `}`] : rules;\n}\n\n\nexport default function flatten(\n  chunk: any,\n  executionContext:
?Object,\n  styleSheet: ?Object,\n  stylisInstance: ?Stringifier\n): any {\n  if (Array.isArray(chunk)) {\n    const
ruleSet = [];\n\n    for (let i = 0, len = chunk.length, result; i < len; i += 1) {\n
      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);\n\n      if (result === '') continue;\n
      else if (Array.isArray(result)) ruleSet.push(...result);\n      else ruleSet.push(result);\n    }\n\n    return ruleSet;\n  }\n\n  if
(isFalsish(chunk)) {\n    return '';\n  }\n\n  /* Handle other components */\n  if (isStyledComponent(chunk)) {\n
return `.${chunk.styledComponentId}`;\n  }\n\n  /* Either execute or defer the function */\n  if (isFunction(chunk))
{\n    if (isStatelessFunction(chunk) && executionContext) {\n      const result = chunk(executionContext);\n\n      if
(process.env.NODE_ENV !== 'production' && isElement(result)) {\n        // eslint-disable-next-line no-console\n
        console.warn(\n          `${getComponentName(\n            chunk\n          )} is not a styled component and cannot be
referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-
components for more details.`\n        );\n      }\n\n      return flatten(result, executionContext, styleSheet, stylisInstance);\n    }
else return chunk;\n  }\n\n  if
(chunk instanceof Keyframes) {\n    if (styleSheet) {\n      chunk.inject(styleSheet, stylisInstance);\n      return
chunk.getName(stylisInstance);\n    } else return chunk;\n  }\n\n  /* Handle objects */\n  return isPlainObject(chunk)
? objToCssArray(chunk) : chunk.toString();\n}\n", "// @flow\n\nexport default function isStatelessFunction(test: any):
boolean {\n  return (\n    typeof test === 'function'\n    && !(\n      test.prototype\n      &&
test.prototype.isReactComponent\n    )\n  );\n}\n", "// @flow\n\nimport unitless from '@emotion/unitless';\n\n\n// Taken
from https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js\n\nexport default function addUnitIfNeeded(name: string, value: any): any {\n
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n // $FlowFixMe\n  if
(value == null || typeof value === 'boolean' || value === '') {\n    return '';\n  }\n\n  if (typeof value === 'number' &&
value !== 0 && !(name in unitless) && !name.startsWith('--')) {\n    return `${value}px`; // Presumes implicit 'px'
suffix for unitless numbers except for CSS variables\n  }\n\n  return String(value).trim();\n}\n", "// @flow\n\nimport

```

```

interleave from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport { EMPTY_ARRAY }
from './utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from './utils/flatten';\nimport
type { Interpolation, RuleSet, Styles } from './types';\n\n/**\n * Used when flattening object styles to determine if
we should\n * expand an array of styles.\n */\nconst addTag = arg => {\n  if (Array.isArray(arg)) {\n    // eslint-
disable-next-line no-param-reassign\n    arg.isCss = true;\n  }\n  return arg;\n};\n\nexport default function css(styles:
Styles, ...interpolations: Array<Interpolation>): RuleSet
{\n  if (isFunction(styles) || isPlainObject(styles)) {\n    // $FlowFixMe\n    return
addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n  }\n  if (interpolations.length === 0
&& styles.length === 1 && typeof styles[0] === 'string') {\n    // $FlowFixMe\n    return styles;\n  }\n  //
$FlowFixMe\n  return addTag(flatten(interleave(styles, interpolations)));\n}\n\n", " @flow\n\nimport { useRef } from
'react';\n\nconst invalidHookCallRe = /invalid hook call/i;\nconst seen = new Set();\n\nexport const
checkDynamicCreation = (displayName: string, componentId?: string) => {\n  if (process.env.NODE_ENV !==
'production') {\n    const parsedIdString = componentId ? ` with the id of \"${componentId}\" : \"\";\n    const message
= \n    `The component ${displayName}${parsedIdString} has been created dynamically.\\n` +\n    `\"You may see
this warning because you've called styled inside another component.\\n\" +\n    `To resolve this only create new
StyledComponents
outside of any render method and function component.`;\n    // If a hook is called outside of a component:\n    //
React 17 and earlier throw an error\n    // React 18 and above use console.error\n    const originalConsoleError =
console.error // eslint-disable-line no-console\n    try {\n      let didNotCallInvalidHook = true\n      /*
$FlowIgnore[cannot-write] */\n      console.error = (consoleErrorMessage, ...consoleErrorArgs) => { // eslint-
disable-line no-console\n        // The error here is expected, since we're expecting anything that uses
`checkDynamicCreation` to\n        // be called outside of a React component.\n        if
(invalidHookCallRe.test(consoleErrorMessage)) {\n          didNotCallInvalidHook = false\n          // This shouldn't
happen, but resets `warningSeen` if we had this error happen intermittently\n          seen.delete(message);\n        }
else {\n          originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);\n        }\n      }\n      // We
purposefully call `useRef` outside of a component and expect it to throw\n      // If it doesn't, then we're inside
another component.\n      // eslint-disable-next-line react-hooks/rules-of-hooks\n      useRef();\n      if
(didNotCallInvalidHook && !seen.has(message)) {\n        // eslint-disable-next-line no-console\n        console.warn(message);\n        seen.add(message);\n      }\n    } catch (error) {\n      // The error here is expected,
since we're expecting anything that uses `checkDynamicCreation` to\n      // be called outside of a React
component.\n      if (invalidHookCallRe.test(error.message)) {\n        // This shouldn't happen, but resets
`warningSeen` if we had this error happen intermittently\n        seen.delete(message);\n      }\n    } finally {\n      /*
$FlowIgnore[cannot-write] */\n      console.error = originalConsoleError; // eslint-disable-line no-console\n    }\n  }
};\n\n", " @flow\n\nimport { EMPTY_OBJECT } from './empties';\n\ntype Props = {\n  theme?:
any;\n};\n\nexport default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {\n
return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;\n};\n\n", " @flow\n\n// Source: https://www.w3.org/TR/cssom-1/#serialize-an-identifier\n// Control characters and non-letter
first symbols are not supported\nconst escapeRegex = /[!\"#$%&'()*+,-./:;<=>?@[\\|\\\]]^{}~]+/g;\nconst
dashesAtEnds = /^(^-$)/g;\n\n/**\n * TODO: Explore using CSS.escape when it becomes more available\n * in
evergreen browsers.\n */\nexport default function escape(str: string): string {\n  return (\n    str\n    // Replace all
possible CSS selectors\n    .replace(escapeRegex, '-')\n    // Remove extraneous hyphens at the start and end\n
.replace(dashesAtEnds, \"\");\n  );\n}\n\n", " @flow\n\n/* eslint-disable */\nimport generateAlphabeticName from
'./generateAlphabeticName';\nimport { hash } from './hash';\n\nexport default (str: string): string => {\n
return generateAlphabeticName(hash(str) >>> 0);\n};\n\n", " @flow\n\nimport type { IStyledComponent } from
'./types';\n\nexport default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean %checks
{\n  return (\n    typeof target === 'string' &&\n    (process.env.NODE_ENV !== 'production'\n      ? target.charAt(0)
=== target.charAt(0).toLowerCase()\n      : true)\n  );\n}\n\n", "/* eslint-disable */\n\n/**\n * mixin-deep;
https://github.com/jonschlinkert/mixin-deep\n  Inlined such that it will be consistently transpiled to an IE-

```

compatible syntax.

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```

const isObject = val => {
  return (
    typeof val === 'function' || (typeof val === 'object'
    && val !== null && !Array.isArray(val))
  );
};
const isValidKey = key => {
  return key !== '__proto__'
  && key !== 'constructor' && key !== 'prototype';
};
function
  mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}
export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }
  return target;
}
"@flow
import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwError from '../utils/error';
import isFunction from '../utils/isFunction';
export type Theme = { [key: string]: mixed };
type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);
type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};
export const ThemeContext: Context<Theme | void> = React.createContext();
export const ThemeConsumer = ThemeContext.Consumer;
function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwError(14);
  }
  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);
    if (
      process.env.NODE_ENV !== 'production' &&
      (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')
    ) {
      return throwError(7);
    }
    return mergedTheme;
  }
  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwError(8);
  }
  return outerTheme ? { ...outerTheme, ...theme } : theme;
}
/**
 * Provide a theme to an entire react component tree via context
 */
export default function
ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext =
    useMemo(() => mergeTheme(props.theme, outerTheme), [
      props.theme,
      outerTheme,
    ]);
  if (!props.children) {
    return null;
  }
  return <ThemeContext.Provider
    value={themeContext}>{props.children}</ThemeContext.Provider>;
}
"@flow
import validAttr from '@emotion/is-prop-valid';
import hoist from 'hoist-non-react-statics';
import React, { createElement, type Ref, useContext } from 'react';
import { SC_VERSION } from './constants';
import type {
  Attrs,
  IStyledComponent,
  IStyledStatics,
  RuleSet,
  ShouldForwardProp,
  Target,
} from './types';
import { checkDynamicCreation } from '../utils/checkDynamicCreation';
import createWarnTooManyClasses from '../utils/createWarnTooManyClasses';
import determineTheme from '../utils/determineTheme';
import { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';
import escape from '../utils/escape';
import generateComponentId from '../utils/generateComponentId';
import generateDisplayName from '../utils/generateDisplayName';
import getComponentName from '../utils/getComponentName';
import isFunction from '../utils/isFunction';
import isStyledComponent from '../utils/isStyledComponent';
import isTag from '../utils/isTag';
import joinStrings from '../utils/joinStrings';
import merge from '../utils/mixinDeep';
import ComponentStyle from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';
const identifiers = {};
/**
 * We depend on components having unique IDs
 */
function

```

```

generateId(displayName?: string, parentComponentId?: string) {\n  const name = typeof displayName !== 'string' ?
'sc' : escape(displayName);\n  // Ensure that no displayName can lead to duplicate componentIds\n
identifiers[name] = (identifiers[name] || 0) + 1;\n\n  const componentId = `${name}-${generateComponentId(\n  //
SC_VERSION gives us isolation between multiple runtimes on the page at once\n  // this is improved further with
use of the babel plugin \"namespace\" feature\n  SC_VERSION + name + identifiers[name]\n  )}`;\n\n  return
parentComponentId ? `${parentComponentId}-${componentId}` : componentId;\n}\n\nfunction
useResolvedAttrs<Config>(theme:
  any = EMPTY_OBJECT, props: Config, attrs: Attrs) {\n  // NOTE: can't memoize this\n  // returns [context,
resolvedAttrs]\n  // where resolvedAttrs is only the things injected by the attrs themselves\n  const context = {
...props, theme };\n  const resolvedAttrs = {};\n\n  attrs.forEach(attrDef => {\n    let resolvedAttrDef = attrDef;\n
let key;\n\n    if (isFunction(resolvedAttrDef)) {\n      resolvedAttrDef = resolvedAttrDef(context);\n    }\n\n    /*
eslint-disable guard-for-in */\n    for (key in resolvedAttrDef) {\n      context[key] = resolvedAttrs[key] =\n      key
=== 'className'\n        ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])\n        : resolvedAttrDef[key];\n    }
\n    /* eslint-enable guard-for-in */\n  });\n\n  return [context, resolvedAttrs];\n}\n\nfunction
useInjectedStyle<T>(\n  componentStyle: ComponentStyle,\n  isStatic: boolean,\n  resolvedAttrs: T,\n
warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>)\n) {\n  const
styleSheet = useStyleSheet();\n  const stylis = useStylis();\n\n  const className = isStatic\n    ?
componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)\n    :
componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n\n  if (process.env.NODE_ENV !==
'production' && !isStatic && warnTooManyClasses) {\n    warnTooManyClasses(className);\n  }\n\n  return
className;\n}\n\nfunction useStyledComponentImpl(\n  forwardedComponent: IStyledComponent,\n  props:
Object,\n  forwardedRef: Ref<any>,\n  isStatic: boolean)\n) {\n  const {\n    attrs: componentAttrs,\n
componentStyle,\n    defaultProps,\n    foldedComponentIds,\n    shouldForwardProp,\n    styledComponentId,\n
target,\n  } = forwardedComponent;\n\n  // NOTE: the non-hooks version only subscribes to this when
!componentStyle.isStatic,\n  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it\n
// should be an immutable value, but behave for now.\n  const theme
= determineTheme(props, useContext(ThemeContext), defaultProps);\n\n  const [context, attrs] =
useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);\n\n  const generatedClassName =
useInjectedStyle(\n    componentStyle,\n    isStatic,\n    context,\n    process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n  );\n\n  const refToForward = forwardedRef;\n\n  const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n\n  const isTargetTag =
isTag(elementToBeCreated);\n  const computedProps = attrs !== props ? { ...props, ...attrs } : props;\n  const
propsForElement = {};\n\n  // eslint-disable-next-line guard-for-in\n  for (const key in computedProps) {\n    if
(key[0] === '$' || key === 'as') continue;\n    else if (key === 'forwardedAs') {\n      propsForElement.as =
computedProps[key];\n    } else if (\n      shouldForwardProp\n        ? shouldForwardProp(key, validAttr,
elementToBeCreated)\n        :\n      isTargetTag\n        ? validAttr(key)\n        : true\n    ) {\n      // Don't pass through non HTML tags through to HTML
elements\n      propsForElement[key] = computedProps[key];\n    }\n  }\n\n  if (props.style && attrs.style !==
props.style) {\n    propsForElement.style = { ...props.style, ...attrs.style };\n  }\n\n  propsForElement.className =
Array.prototype\n    .concat(\n      foldedComponentIds,\n      styledComponentId,\n      generatedClassName !==
styledComponentId ? generatedClassName : null,\n      props.className,\n      attrs.className\n    )\n    .filter(Boolean)\n    .join('');\n\n  propsForElement.ref = refToForward;\n\n  return
createElement(elementToBeCreated, propsForElement);\n}\n\nexport default function createStyledComponent(\n
target: $PropertyType<IStyledComponent, 'target'>,\n  options: {\n    attrs?: Attrs,\n    componentId: string,\n
displayName?: string,\n    parentComponentId?: string,\n    shouldForwardProp?: ShouldForwardProp,\n  },\n  rules:
RuleSet\n) {\n  const isTargetStyledComp = isStyledComponent(target);\n  const isCompositeComponent = !isTag(target);\n\n  const {\n    attrs = EMPTY_ARRAY,\n    componentId = generateId(options.displayName,

```



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options.parentComponentId),\n  displayName = generateDisplayName(target),\n } = options;\n\n const
styledComponentId =\n  options.displayName && options.componentId\n  ? `${escape(options.displayName)}-
${options.componentId}`\n  : options.componentId || componentId;\n\n // fold the underlying StyledComponent
attrs up (implicit extend)\n const finalAttrs =\n  isTargetStyledComp && ((target: any): IStyledComponent).attrs\n
  ? Array.prototype.concat(((target: any): IStyledComponent).attrs, attrs).filter(Boolean)\n  : attrs;\n\n // eslint-
disable-next-line prefer-destructuring\n let shouldForwardProp = options.shouldForwardProp;\n\n if
(isTargetStyledComp && target.shouldForwardProp) {\n  if (options.shouldForwardProp) {\n    // compose
nested shouldForwardProp
calls\n    shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n      (((target: any):
IStyledComponent).shouldForwardProp: any): ShouldForwardProp)(\n        prop,\n        filterFn,\n
elementToBeCreated\n      ) &&\n      ((options.shouldForwardProp: any): ShouldForwardProp)(prop, filterFn,
elementToBeCreated);\n  } else {\n    // eslint-disable-next-line prefer-destructuring\n    shouldForwardProp =
((target: any): IStyledComponent).shouldForwardProp;\n  }\n}\n\n const componentStyle = new
ComponentStyle(\n  rules,\n  styledComponentId,\n  isTargetStyledComp ? ((target: Object).componentStyle:
ComponentStyle) : undefined\n);\n\n // statically styled-components don't need to build an execution context
object,\n // and shouldn't be increasing the number of class names\n const isStatic = componentStyle.isStatic &&
attrs.length === 0;\n\n /**\n * forwardRef creates a new interim component, which we'll take advantage of\n *
instead
of extending ParentComponent to create _another_ interim class\n */\n let WrappedStyledComponent:
IStyledComponent;\n\n const forwardRef = (props, ref) =>\n  // eslint-disable-next-line\n
useStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);\n\n forwardRef.displayName =
displayName;\n\n WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);\n
WrappedStyledComponent.attrs = finalAttrs;\n WrappedStyledComponent.componentStyle = componentStyle;\n
WrappedStyledComponent.displayName = displayName;\n WrappedStyledComponent.shouldForwardProp =
shouldForwardProp;\n\n // this static is used to preserve the cascade of static classes for component selector\n //
purposes; this is especially important with usage of the css prop\n WrappedStyledComponent.foldedComponentIds
= isTargetStyledComp\n  ? Array.prototype.concat(\n    ((target: any):
IStyledComponent).foldedComponentIds,\n    ((target: any): IStyledComponent).styledComponentId\n
  )\n  : EMPTY_ARRAY;\n\n WrappedStyledComponent.styledComponentId = styledComponentId;\n\n // fold
the underlying StyledComponent target up since we folded the styles\n WrappedStyledComponent.target =
isTargetStyledComp\n  ? ((target: any): IStyledComponent).target\n  : target;\n\n
WrappedStyledComponent.withComponent = function withComponent(tag: Target) {\n  const { componentId:
previousComponentId, ...optionsToCopy } = options;\n\n  const newComponentId =\n    previousComponentId
&&\n    `${previousComponentId}-${isTag(tag) ? tag : escape(getComponentName(tag))}`;\n\n  const
newOptions = {\n    ...optionsToCopy,\n    attrs: finalAttrs,\n    componentId: newComponentId,\n  };\n\n
return createStyledComponent(tag, newOptions, rules);\n  };\n\n Object.defineProperty(WrappedStyledComponent,
'defaultProps', {\n  get() {\n    return this._foldedDefaultProps;\n  },\n  set(obj) {\n
this._foldedDefaultProps = isTargetStyledComp\n    ? merge({}, ((target: any): IStyledComponent).defaultProps, obj)\n    : obj;\n  },\n});\n\n if
(process.env.NODE_ENV !== 'production') {\n  checkDynamicCreation(displayName, styledComponentId);\n}\n\n
WrappedStyledComponent.warnTooManyClasses = createWarnTooManyClasses(\n  displayName,\n  styledComponentId\n);\n}\n\n // If the Object prototype is frozen, the "toString" property is non-writable. This
means that any objects which inherit this property\n // cannot have the property changed using an assignment. If
using strict mode, attempting that will cause an error. If not using strict\n // mode, attempting that will be silently
ignored.\n // However, we can still explicitly shadow the prototype's "toString" property by defining a new
"toString" property on this object.\n Object.defineProperty(WrappedStyledComponent, 'toString', { value: () =>
`${WrappedStyledComponent.styledComponentId}` });\n\n if (isCompositeComponent) {\n  hoist<\n

```

```

IStyledStatics,\n  $PropertyType<IStyledComponent, 'target'>,\n  { [key: $Keys<IStyledStatics>]: true }\n
>(WrappedStyledComponent, ((target: any): $PropertyType<IStyledComponent, 'target'>), {\n  // all SC-specific
things should not be hoisted\n  attrs: true,\n  componentStyle: true,\n  displayName: true,\n  foldedComponentIds: true,\n  shouldForwardProp: true,\n  styledComponentId: true,\n  target: true,\n  withComponent: true,\n  });\n\n return WrappedStyledComponent;\n}\n", "// @flow\nimport type {
IStyledComponent } from './types';\nimport getComponentName from './getComponentName';\nimport isTag from
'/isTag';\n\nexport default function generateDisplayName(\n  target: $PropertyType<IStyledComponent,
'target'>):\n  string {\n  return isTag(target) ? `styled.${target}` :\n  `Styled(${getComponentName(target)})`;\n}\n", /**\n * Convenience function for joining strings to form
className chains\n */\nexport default function joinStrings(a:\n  ?String, b: ?String): ?String {\n  return a && b ? `${a} ${b}` : a || b;\n}\n", "// @flow\n\nexport const LIMIT =
200;\n\nexport default (displayName: string, componentId: string) => {\n  let generatedClasses = {};\n  let
warningSeen = false;\n  return (className: string) => {\n    if (!warningSeen) {\n      generatedClasses[className] = true;\n      if (Object.keys(generatedClasses).length >= LIMIT) {\n        // Unable to
find latestRule in test environment.\n        /* eslint-disable no-console, prefer-template */\n        const parsedIdString
= componentId ? ` with the id of \"${componentId}\"` : \"\";\n        console.warn(\n          `Over ${LIMIT} classes
were generated for component ${displayName}${parsedIdString}.\\n` +\n          'Consider using the attrs method,
together with a style object for frequently changed styles.\\n' +\n          'Example:\\n' +\n          ' const Component
= styled.div.attrs(props => ({\n            style: {\n              background: props.background,\n            },\n            width: 100%;\n          }));\n        <Component />\n          );\n          warningSeen = true;\n          generatedClasses = {};\n        }\n      }\n    }\n  };;\n\n", "//
@flow\n// Thanks to ReactDOMFactories for this handy list!\n\nexport default [\n  'a',\n  'abbr',\n  'address',\n  'area',\n  'article',\n  'aside',\n  'audio',\n  'b',\n  'base',\n  'bdi',\n  'bdo',\n  'big',\n  'blockquote',\n  'body',\n  'br',\n  'button',\n  'canvas',\n  'caption',\n  'cite',\n  'code',\n  'col',\n  'colgroup',\n  'data',\n  'datalist',\n  'dd',\n  'del',\n  'details',\n  'dfn',\n  'dialog',\n  'div',\n  'dl',\n  'dt',\n  'em',\n  'embed',\n  'fieldset',\n  'figcaption',\n  'figure',\n  'footer',\n  'form',\n  'h1',\n  'h2',\n  'h3',\n  'h4',\n  'h5',\n  'h6',\n  'head',\n  'header',\n  'hgroup',\n  'hr',\n  'html',\n  'i',\n  'iframe',\n  'img',\n  'input',\n  'ins',\n  'kbd',\n  'keygen',\n  'label',\n  'legend',\n  'li',\n  'link',\n  'main',\n  'map',\n  'mark',\n  'marquee',\n  'menu',\n  'menuitem',\n  'meta',\n  'meter',\n  'nav',\n  'noscript',\n  'object',\n  'ol',\n  'optgroup',\n  'option',\n  'output',\n  'p',\n  'param',\n  'picture',\n  'pre',\n  'progress',\n  'q',\n  'rp',\n  'rt',\n  'ruby',\n  's',\n  'samp',\n  'script',\n  'section',\n  'select',\n  'small',\n  'source',\n  'span',\n  'strong',\n  'style',\n  'sub',\n  'summary',\n  'sup',\n  'table',\n  'tbody',\n  'td',\n  'textarea',\n  'tfoot',\n  'th',\n  'thead',\n  'time',\n  'title',\n  'tr',\n  'track',\n  'u',\n  'ul',\n  'var',\n  'video',\n  'wbr',\n  '\n // SVG\n  'circle',\n  'clipPath',\n  'defs',\n  'ellipse',\n  'foreignObject',\n  'g',\n  'image',\n  'line',\n  'linearGradient',\n  'marker',\n  'mask',\n  'path',\n  'pattern',\n  'polygon',\n  'polyline',\n  'radialGradient',\n  'rect',\n  'stop',\n  'svg',\n  'text',\n  'textPath',\n  'tspan',\n  '\n'];\n\n", "//
@flow\nimport constructWithOptions from './constructWithOptions';\nimport
StyledComponent from './models/StyledComponent';\nimport domElements from './utils/domElements';\n\nimport
type { Target } from './types';\n\nconst styled = (tag: Target) => constructWithOptions(StyledComponent,
tag);\n\n// Shorthands for all valid HTML Elements\ndomElements.forEach(domElement => {\n  styled[domElement] = styled(domElement);\n});\n\nexport default styled;\n", "// @flow\nimport {
isValidElementType } from 'react-is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport
{ EMPTY_OBJECT } from './utils/empties';\n\nimport type { Target } from './types';\n\nexport default function
constructWithOptions(\n  componentConstructor: Function,\n  tag: Target,\n  options: Object =
EMPTY_OBJECT)\n  {\n    if (!isValidElementType(tag)) {\n      return throwStyledError(1, String(tag));\n    }\n    /*
This is callable directly as a template function */\n    // $FlowFixMe: Not typed to avoid destructuring arguments\n
const templateFunction =\n      (...args) => componentConstructor(tag, options, css(...args));\n\n    /* If config methods are called, wrap up a new
template function and merge options */\n    templateFunction.withConfig = config =>\n      constructWithOptions(componentConstructor, tag, { ...options, ...config });\n\n    /* Modify/inject new props at

```

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runtime *^n templateFunction.attrs = attrs =>^n  constructWithOptions(componentConstructor, tag, {^n
...options,^n  attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),^n  });^n^n return
templateFunction;^n}^n", "// @flow\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from
 './types';\nimport flatten from './utils/flatten';\nimport isStaticRules from './utils/isStaticRules';\n\nexport default
class GlobalStyle {^n  componentId: string;^n^n  isStatic: boolean;^n^n  rules: RuleSet;^n^n  constructor(rules:
RuleSet, componentId: string) {^n    this.rules = rules;^n    this.componentId = componentId;^n    this.isStatic =
isStaticRules(rules);^n^n
  // pre-register the first instance to ensure global styles\n  // load before component ones\n  StyleSheet.registerId(this.componentId + 1);^n  }^n^n  createStyles(^n    instance: number,^n    executionContext:
Object,^n    styleSheet: StyleSheet,^n    stylis: Stringifier^n  ) {^n    const flatCSS = flatten(this.rules,
executionContext, styleSheet, stylis);^n    const css = stylis(flatCSS.join(", "));^n    const id = this.componentId +
instance;^n^n    // NOTE: We use the id as a name as well, since these rules never change\n    styleSheet.insertRules(id, id, css);^n  }^n^n  removeStyles(instance: number, styleSheet: StyleSheet) {^n
styleSheet.clearRules(this.componentId + instance);^n  }^n^n  renderStyles(^n    instance: number,^n
executionContext: Object,^n    styleSheet: StyleSheet,^n    stylis: Stringifier^n  ) {^n    if (instance > 2)
StyleSheet.registerId(this.componentId + instance);^n^n    // NOTE: Remove old styles, then inject the new ones\n    this.removeStyles(instance, styleSheet);^n    this.createStyles(instance, executionContext, styleSheet, stylis);^n
  }^n}^n", "// @flow\n/* eslint-disable no-underscore-dangle */\nimport React from 'react';\nimport { IS_BROWSER,
SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport throwStyledError from
 './utils/error';\nimport getNonce from './utils/nonce';\nimport StyleSheet from './sheet';\nimport StyleSheetManager
from './StyleSheetManager';\n\ndeclare var __SERVER__: boolean;^n\nconst CLOSING_TAG_R = /^\\s*<\\/[a-
z]/i;^n\nexport default class ServerStyleSheet {^n  isStreaming: boolean;^n^n  instance: StyleSheet;^n^n  sealed:
boolean;^n^n  constructor() {^n    this.instance = new StyleSheet({ isServer: true });^n    this.sealed = false;^n  }^n^n
  _emitSheetCSS = (): string => {^n    const css = this.instance.toString();^n    if (!css) return "";^n^n    const nonce =
getNonce();^n    const attrs = [nonce && `nonce=${`$`{nonce}}`, ` ${SC_ATTR}=${`true`}`,
` ${SC_ATTR_VERSION}=${`$`{SC_VERSION}}`];^n^n    const htmlAttr = attrs.filter(Boolean).join(' ');^n^n    return `<style ${`htmlAttr`} >${`css`} </style>`;^n  }^n^n
  collectStyles(children: any) {^n    if (this.sealed) {^n      return throwStyledError(2);^n    }^n^n    return
<StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;^n  }^n^n  getStyleTags = (): string =>
{^n    if (this.sealed) {^n      return throwStyledError(2);^n    }^n^n    return this._emitSheetCSS();^n  };^n^n
  getStyleElement = () => {^n    if (this.sealed) {^n      return throwStyledError(2);^n    }^n^n    const props = {^n
[SC_ATTR]: "",^n [SC_ATTR_VERSION]: SC_VERSION,^n dangerouslySetInnerHTML: {^n    __html:
this.instance.toString(),^n    },^n  };^n^n    const nonce = getNonce();^n    if (nonce) {^n      (props: any).nonce =
nonce;^n    }^n^n    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat\n    return
[<style {...props} key=${`sc-0-0`} />];^n  };^n^n
  // eslint-disable-next-line consistent-return\n  interleaveWithNodeStream(input: any) {^n    if (!__SERVER__ ||
IS_BROWSER) {^n      return throwStyledError(3);^n    } else if (this.sealed) {^n      return throwStyledError(2);^n
    }^n^n    if (__SERVER__) {^n      this.seal();^n^n      // eslint-disable-next-line global-require\n      const { Readable,
Transform } = require('stream');^n^n      const readableStream: Readable = input;^n      const { instance: sheet,
_emitSheetCSS } = this;^n^n      const transformer = new Transform({^n        transform: function
appendStyleChunks(chunk, /* encoding */ _, callback) {^n          // Get the chunk and retrieve the sheet's CSS as an
HTML chunk,^n          // then reset its rules so we get only new ones for the next chunk\n          const renderedHtml =
chunk.toString();^n          const html = _emitSheetCSS();^n          sheet.clearTag();^n          // prepend style html to
chunk, unless the start of the chunk is a\n          // closing
tag in which case append right after that\n          if (CLOSING_TAG_R.test(renderedHtml)) {^n            const
endOfClosingTag = renderedHtml.indexOf('>') + 1;^n            const before = renderedHtml.slice(0,
endOfClosingTag);^n            const after = renderedHtml.slice(endOfClosingTag);^n^n            this.push(before + html
+ after);^n          } else {^n            this.push(html + renderedHtml);^n          }^n^n          callback();^n        },^n
  }

```



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handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the
stylesheet, or simply embedding it manually in your index.html <head> section for a simpler app.`\n );\n }\n\n
if (styleSheet.server) {\n   renderStyles(instance, props, styleSheet, theme, stylis);\n }\n\n if (!__SERVER__)
{\n   // this conditional is fine because it is compiled away for the relevant builds during minification,\n   //
resulting in a single unguarded hook call\n   // eslint-disable-next-line react-hooks/rules-of-hooks\n
  useLayoutEffect(() => {\n    if (!styleSheet.server) {\n      renderStyles(instance, props, styleSheet, theme,
stylis);\n      return () => globalStyle.removeStyles(instance, styleSheet);\n    }\n  }, [instance, props,
styleSheet, theme, stylis]);\n }\n\n return null;\n }\n\n function renderStyles(instance, props, styleSheet, theme,
stylis) {\n   if (globalStyle.isStatic) {\n     globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT,
styleSheet, stylis);\n   } else {\n     const context = {\n       ...props,\n       theme: determineTheme(props, theme,
GlobalStyleComponent.defaultProps),\n     };\n     globalStyle.renderStyles(instance, context, styleSheet,
stylis);\n   }\n }\n\n // $FlowFixMe\n return React.memo(GlobalStyleComponent);\n }\n\n", "// @flow\n\nimport css
from './css';\nimport generateComponentId from './utils/generateComponentId';\nimport Keyframes from
'./models/Keyframes';\nimport type { Interpolation,
Styles } from './types';\n\nexport default function keyframes(\n  strings: Styles,\n  ...interpolations:
Array<Interpolation>)\n): Keyframes {\n  /* Warning if you've used keyframes on React Native */\n  if (\n
process.env.NODE_ENV !== 'production' &&\n    typeof navigator !== 'undefined' &&\n    navigator.product ===
'ReactNative'\n  ) {\n    // eslint-disable-next-line no-console\n    console.warn(\n      `keyframes` cannot be used on
ReactNative, only on the web. To do animation in ReactNative please use Animated.`\n    );\n  }\n\n  const rules =
css(strings, ...interpolations).join("");\n  const name = generateComponentId(rules);\n  return new Keyframes(name,
rules);\n }\n\n", "// @flow\n\nimport { useContext } from 'react';\nimport { ThemeContext } from
'./models/ThemeProvider';\n\nconst useTheme = () => useContext(ThemeContext);\n\nexport default
useTheme;\n\n", "// @flow\n\nimport React, { useContext, type AbstractComponent } from 'react';\nimport hoistStatics
from 'hoist-non-react-statics';\nimport
{ ThemeContext } from './models/ThemeProvider';\nimport determineTheme from
'./utils/determineTheme';\nimport getComponentName from './utils/getComponentName';\n\n// NOTE: this would
be the correct signature:\n// export default <Config: { theme?: any }, Instance>(\n//   Component:
AbstractComponent<Config, Instance>\n// ): AbstractComponent<$Diff<Config, { theme?: any } & { theme?: any
}, Instance>\n//\n// but the old build system tooling doesn't support the syntax\n\nexport default (Component:
AbstractComponent<*, *>) => {\n  // $FlowFixMe This should be React.forwardRef<Config, Instance>\n  const
WithTheme = React.forwardRef((props, ref) => {\n    const theme = useContext(ThemeContext);\n    // $FlowFixMe
defaultProps isn't declared so it can be inferred\n    const { defaultProps } = Component;\n    const themeProp =
determineTheme(props, theme, defaultProps);\n\n    if (process.env.NODE_ENV !== 'production' && themeProp
=== undefined) {\n      // eslint-disable-next-line
no-console\n      console.warn(\n        `[withTheme] You are not using a ThemeProvider nor passing a theme prop
or a theme in defaultProps in component class \"${getComponentName(\n          Component\n        )}\"`\n      );\n
    }\n\n    return <Component { ...props } theme={themeProp} ref={ref} />;\n  });\n\n  hoistStatics(WithTheme,
Component);\n\n  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`; \n\n  return
WithTheme;\n }\n\n", "names":["strings","interpolations","result","i","len","length","push","x","toString","Object","p
rototype","call","typeof","EMPTY_ARRAY","freeze","EMPTY_OBJECT","isFunction","test","getComponentName","target","process","env","NODE_ENV","displayName","name","isStyledComponent","styledComponentId","S
C_ATTR","REACT_APP_SC_ATTR","IS_BROWSER","window","DISABLE_SPEEDY","Boolean","SC_DISABLE_SPEEDY","REACT_APP_SC_DISABLE_SPEEDY","STATIC_EXECUTION_CONTEXT","ERRORS","format","a","b","c","arguments","forEach","d","replace","throwStyledComponentsError","code","Error","join","trim","DefaultGroupedTag","tag","groupSizes","Uint32Array","indexOfGroup","group","index","this","insertRules","rules","oldBuffer","oldSize","newSize","throwStyledError","set","ruleIndex","l","insertRule","clearGroup","startIndex","endIndex","deleteRule","getGroup","css","getRule","groupIDRegister","Map","reverseRegister","nextFreeGroup","getGroupForId","id","has","get","getIdForGroup","setGroupForId","SELECTOR","MARKER_RE","RegExp","re

```

hydrateNamesFromContent", "sheet", "content", "names", "split", "registerName", "rehydrateSheetFromTag", "style", "parts", "textContent", "part", "marker", "match", "parseInt", "getTag", "getNonce", "\_\_webpack\_nonce\_\_", "makeStyleTag", "head", "document", "parent", "createElement", "prevStyle", "childNodes", "child", "nodeType", "hasAttribute", "findLastStyleTag", "nextSibling", "undefined", "setAttribute", "\_\_VERSION\_\_", "nonce", "insertBefore", "CSSOMTag", "element", "appendChild", "createTextNode", "styleSheets", "ownerNode", "getSheet", "rule", "\_error", "cssRules", "cssText", "TextTag", "nodes", "node", "refNode", "removeChild", "VirtualTag", "\_target", "splice", "SHOULD\_REHYDRATE", "defaultOptions", "isServer", "useCSSOMInjection", "StyleSheet", "options", "globalStyles", "gs", "server", "querySelectorAll", "getAttribute", "parentNode", "rehydrateSheet", "registerId", "reconstructWithOptions", "withNames", "allocateGSInstance", "hasNameForId", "add", "groupNames", "Set", "clearNames", "clear", "clearRules", "clearTag", "size", "selector", "outputSheet", "AD\_REPLACER\_R", "getAlphabeticChar", "String", "fromCharCode", "generateAlphabeticName", "Math", "abs", "phash", "h", "charCodeAt", "hash", "isStaticRules", "SEED", "ComponentStyle", "componentId", "baseStyle", "staticRulesId", "isStatic", "baseHash", "generateAndInjectStyles", "executionContext", "styleSheet", "stylis", "cssStatic", "flatten", "generateName", "cssStaticFormatted", "dynamicHash", "partRule", "partChunk", "partString", "Array", "isArray", "cssFormatted", "COMMENT\_REGEX", "COMPLEX\_SELECTOR\_PREFIX", "createStylisInstance", "\_componentId", "\_selector", "\_selectorRegexp", "\_consecutiveSelfRefRegExp", "plugins", "Stylis", "parsingRules", "parseRulesPlugin", "toSheet", "block", "e", "context", "selectors", "parents", "line", "column", "ns", "depth", "at", "delimiter", "insertRulePlugin", "selfReferenceReplacer", "offset", "string", "indexOf", "stringifyRules", "prefix", "flatCSS", "cssStr", "use", "\_", "lastIndexOf", "parsedRules", "reduce", "acc", "plugin", "StyleSheetContext", "React", "createContext", "StyleSheetConsumer", "Consumer", "StylisContext", "masterSheet", "masterStylis", "useStyleSheet", "useContext", "useStylis", "StyleSheetManager", "props", "useState", "stylisPlugins", "setPlugins", "contextStyleSheet", "useMemo", "disableCSSOMInjection", "disableVendorPrefixes", "useEffect", "shallowequal", "Provider", "value", "Children", "only", "children", "Keyframes", "inject", "stylisInstance", "resolvedName", "\_this", "getName", "uppercaseCheck", "uppercasePattern", "msPattern", "prefixAndLowerCase", "char", "toLowerCase", "hyphenateStyleName", "isFalsish", "chunk", "ruleSet", "isReactComponent", "isElement", "console", "warn", "isPlainObject", "objToCssArray", "obj", "prevKey", "key", "hasOwnProperty", "isCss", "hyphenate", "unitless", "startsWith", "addTag", "arg", "styles", "interleave", "invalidHookCallRe", "seen", "checkDynamicCreation", "message", "originalConsoleError", "error", "didNotCallInvalidHook", "consoleErrorMessage", "consoleErrorArgs", "useRef", "providedTheme", "defaultProps", "theme", "escapeRegex", "dashesAtEnds", "escape", "str", "isTag", "charAt", "isObject", "val", "isValidKey", "mixin", "mixinDeep", "rest", "ThemeContext", "ThemeConsumer", "identifiers", "createStyledComponent", "isTargetStyledComp", "isCompositeComponent", "attrs", "parentComponentId", "generateComponentId", "generateId", "generateDisplayName", "finalAttrs", "concat", "filter", "shouldForwardProp", "prop", "filterFn", "elementToBeCreated", "WrappedStyledComponent", "componentStyle", "forwardRef", "ref", "forwardedComponent", "forwardedRef", "componentAttrs", "foldedComponentIds", "resolvedAttrs", "attrDef", "resolvedAttrDef", "useResolvedAttrs", "determineTheme", "generatedClassName", "warnTooManyClasses", "className", "useInjectedStyle", "refToForward", "\$as", "as", "isTargetTag", "computedProps", "propsForElement", "validAttr", "withComponent", "previousComponentId", "optionsToCopy", "newComponentId", "defineProperty", "\_foldedDefaultProps", "merge", "generatedClasses", "warningSeen", "keys", "parsedIdString", "createWarnTooManyClasses", "hoist", "styled", "constructWithOptions", "componentConstructor", "isValidElementType", "templateFunction", "withConfig", "config", "StyledComponent", "domElement", "GlobalStyle", "createStyles", "instance", "removeStyles", "renderStyles", "CLOSING\_TAG\_R", "ServerStyleSheet", "\_emitSheetCSS", "SC\_ATTR\_VERSION", "getStyleTags", "sealed", "getStyleElement", "dangerouslySetInnerHTML", "\_\_html", "seal", "collectStyles", "interleaveWithNodeStream", "input", "require", "Transform", "Readable", "readableStream", "transformer", "transform", "callback", "renderedHtml", "html", "endOfClosingTag", "before", "slice", "after", "on", "err", "emit", "pipe", "\_\_PRIVATE\_\_", "navigator", "product", "outerTheme", "themeContext", "mergedTheme", "mergeTheme", "JSON", "stringify", "globalStyle", "GlobalStyleComponent", "current", "count", "some", "memo", "Component", "WithTheme", "themeProp", "hoistStatics"], "mappings": "2jBAGA,eACEA,EAACAC,WAEMC,EAAS,CAACF,EAAQ,IAEfG,EAAL,EAAGC,EAAMH,EA AeI,OAAQF,EA AIC,EA AKD,GA AK,EACzDD,EA AOI,KAAKL,EA AeE,GA A IH,EA AQG,EA AI,WAGtCD,cCVOK,UACR,OAANA,GACa,iBAANA,GAC6D,qBAAnEA,EA AEC,SAAWD,EA AEC,WAAAc,OAAOC,UAAUF,SAASG,KAAKJ,MAC3DK,SA AOL,ICNGM,EA AcJ,OAAOK,OAAO,IAC5BC,EA AeN,OAAOK,OAAO,ICD3B,SAASE,EA AWC,SACV,mBAATA,ECC

D,SAASC,EACtBC,SAG4B,eAAzBC,QAAQC,IAAIC,UAA8C,iBAAXH,GAAuBA,GAEvEA,EAAOI,aAEPJ,EA  
AOK,MACP,YCXW,SAASC,EAakBN,UACjCA,GAA8C,iBAA7BA,EAAOO,kBCG1B,IAAMC,EACS,oBAAZP,  
cACiB,IAAhBA,QAAQC,MACdD,QAAQC,IAAIO,mBAAqBR,QAAQC,IAAIM,UAChD,cAOWE,EAA+B,oBA  
AXC,QAA0B,gBAAiBA,OAE/DC,EAAiBC,QACC,kBAAtBC,kBACHA,kBACmB,oBAAZb,cAAkD,IAAhBA,Q  
AAQC,WACE,IAA5CD,QAAQC,IAAIa,6BACyB,KAA5Cd,QAAQC,IAAIa,4BACKC,UAA5Cd,QAAQC,IAAIa,6  
BAEVd,QAAQC,IAAIa,iCAC2B,IAAICd,QAAQC,IAAIY,mBAAuE,KAAICb,QAAQC,IAAIY,kBACIC,UAAICb  
,QAAQC,IAAIY,mBAEVb,QAAQC,IAAIY,kBACW,eAAzBb,QAAQC,IAAIC,WAKPa,EAA2B,GCjCICC,EAAk  
C,eAAzBhB,QAAQC,IAAIC,SCHZ,GAACK,0DAA4D,kQAAoQ,wHAA0H,wMAA0M,oKAAAsK,8OAAgP,uHAA2  
H,gEAAoE,mCAAqC,oUAAsU,2NAA6N,wWAA0W,4LAA8L,kDAAAsD,8ZAAga,0QAA4Q,0IDG7/F,GAKIE,SA  
ASe,YACHC,0CACEC,EAAI,GAEDC,EAAI,EAAGpC,EAAMqC,UAAKpC,OAAQmC,EAAIpC,EAAKoC,GAA  
K,EAC/CD,EAAEjC,KAAUkC,uBAAAA,mBAAAA,WAGdD,EAAEG,SAAQ,SAAAC,GACRL,EAAIA,EAAEM  
,QAAQ,SAAUD,MAGnBL,EAOM,SAASO,EACtBC,8BACG7C,mCAAAA,yBAE0B,eAAzBmB,QAAQC,IAAIC,  
SACR,IAAIyB,qDACuCD,4BAC7C7C,EAAeI,OAAS,YAAcJ,EAAe+C,KAAK,MAAU,KAIIE,IAAID,MAAMV,g  
BAAOD,EAAOU,WAAU7C,IAAgBgD,QE9BrD,IAMDC,wBAOQC,QACLC,WAAa,IAAIC,YAVR,UAWThD,O  
AXS,SAYT8C,IAAMA,6BAGbG,aAAA,SAAaC,WACPC,EAAQ,EACHrD,EAAI,EAAGA,EAAIoD,EAAOpD,IA  
CzBqD,GAASC,KAAKL,WAAWjD,UAGpBqD,KAGTE,YAAA,SAAYH,EAAeI,MACrBJ,GAASE,KAAKL,WA  
AW/C,OAAQ,SAC7BuD,EAAyH,KAAKL,WACjBS,EAAUD,EAAUvD,OAETByD,EAAUD,EACPN,GAASO,IA  
CdA,IAAY,GACE,GACZC,EAAiB,MAAOR,QAIvBH,WAAa,IAAIC,YAAYS,QAC7BV,WAAWY,IAAIJ,QACfv  
D,OAASyD,MAET,IAAI3D,EAAI0D,EAAS1D,EAAI2D,EAAS3D,SAC5BiD,WAAWjD,GAACK,UAIrB8D,EAA  
YR,KAAKH,aAAaC,EAAQ,GACjCpD,EAAI,EAAG+D,EAAIP,EAAMtD,OAAQF,EAAI+D,EAAG/D,IACnCsD,  
KAAKN,IAAIgB,WAAWF,EAAWN,EAAMxD,WACiCiD,WAAWG,KACHBU,QAKNG,WAAA,SAAWb,MACL  
A,EAAQE,KAAKpD,OAAQ,KACjBA,EAASoD,KAAKL,WAAWG,GACzBc,EAAaZ,KAAKH,aAAaC,GAC/Be,  
EAAWD,EAAahE,OAeZb+C,WAAWG,GAAS,MAEPb,IAAIpD,EAAIkE,EAAYIE,EAAImE,EAAUnE,SACHCg  
D,IAAIoB,WAAWF,OAK1BG,SAAA,SAASjB,OACHkB,EAAM,MACNIB,GAASE,KAAKpD,QAAqC,IAA3Bo  
D,KAAKL,WAAWG,UACnCb,UAGHpE,EAASoD,KAAKL,WAAWG,GACzBc,EAAaZ,KAAKH,aAAaC,GAC  
/Be,EAAWD,EAAahE,EAERBF,EAAIkE,EAAYIE,EAAImE,EAAUnE,IACrCsE,GAAUhB,KAAKN,IAAIuB,QA  
AQvE,GH9ET,mBGiFbsE,QCzFPE,EAAuC,IAAIC,IAC3CC,EAAuC,IAAID,IAC3CE,EAAgB,EAQPC,EAAgB,S  
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components.esm.js", "sources": ["../src/utis/interleave.js", "../src/utis/isPlainObject.js", "../src/utis/empties.js", "../src/utis/isFunction.js", "../src/utis/getComponentName.js", "../src/utis/isStyledComponent.js", "../src/constants.js", "../src/utis/error.js", "../src/utis/errors.js", "../src/sheet/GroupedTag.js", "../src/sheet/GroupIDAllocator.js", "../src/sheet/Rehydration.js", "../src/utis/nonce.js", "../src/sheet/dom.js", "../src/sheet/Tag.js", "../src/sheet/Sheet.js", "../src/utis/generateAlphabeticName.js", "../src/utis/hash.js", "../src/utis/isStaticRules.js", "../src/models/ComponentStyle.js", "../src/utis/stylis.js", "../src/utis/stylisPluginInsertRule.js", "../src/models/StyleSheetManager.js", "../src/models/Keyframes.js", "../src/utis/hyphenateStyleName.js", "../src/utis/flatten.js", "../src/utis/isStatelessFunction.js", "../src/utis/addUnitIfNeeded.js", "../src/constructors/css.js", "../src/utis/checkDynamicCreation.js", "../src/utis/determineTheme.js", "../src/utis/escape.js", "../src/utis/generateComponentId.js", "../src/utis/isTag.js", "../src/utis/mixinDeep.js", "../src/models/ThemeProvider.js", "../src/models/StyledComponent.js", "../src/utis/generateDisplayName.js", "../src/utis/joinStrings.js", "../src/utis/createWarnTooManyClasses.js", "../src/utis/domElements.js", "../src/constructors/styled.js", "../src/constructors/constructWithOptions.js", "../src/models/GlobalStyle.js", "../src/constructors/createGlobalStyle.js", "../src/constructors/keyframes.js", "../src/models/ServerStyleSheet.js", "../src/hoc/withTheme.js", "../src/hooks/useTheme.js", "../src/secretInternals.js", "../src/base.js"], "sourcesContent": ["//

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@flow\nimport type { Interpolation } from './types';\n\nexport default (\n  strings: Array<string>,\n  interpolations: Array<Interpolation>)\n): Array<Interpolation> => {\n  const result = [strings[0]];\n  for (let i = 0, len = interpolations.length; i < len; i += 1) {\n    result.push(interpolations[i], strings[i + 1]);\n  }\n  return result;\n};\n\n// @flow\nimport { typeOf } from 'react-is';\n\nexport default (x: any): boolean => {\n  x !== null && \n    typeof x === 'object' && \n    (x.toString ? x.toString() : Object.prototype.toString.call(x)) === '[object Object]' && \n    !typeOf(x);\n};\n\n// @flow\nexport const EMPTY_ARRAY = Object.freeze([]);\n\nexport const EMPTY_OBJECT = Object.freeze({});\n\n// @flow\nexport default function isFunction(test: any): boolean %checks {\n  return typeof test === 'function';\n}\n\n// @flow\nimport type { IStyledComponent } from './types';\n\nexport default function getComponentName(\n  target: $PropertyType<IStyledComponent, 'target'>)\n): string {\n  return (\n    (process.env.NODE_ENV !== 'production' ?\n      typeof target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  );\n}\n\n// @flow\nexport default function isStyledComponent(target: any): boolean %checks {\n  return target && typeof target.styledComponentId === 'string';\n}\n\n// @flow\n\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\n\ndeclare var __VERSION__: string;\n\nexport const SC_ATTR: string = (\n  typeof process !== 'undefined' && \n  typeof process.env !== 'undefined' && \n  (process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)\n) ||\n  'data-styled';\n\nexport const SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const SC_VERSION = __VERSION__;\n\nexport const SPLITTER = '/*!sc*/';\n\nexport const IS_BROWSER =\n  typeof window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n  typeof SC_DISABLE_SPEEDY === 'boolean'\n  ? SC_DISABLE_SPEEDY\n  : typeof process !== 'undefined' && \n  typeof process.env !== 'undefined'\n  ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined' && \n  process.env.REACT_APP_SC_DISABLE_SPEEDY\n  : process.env.REACT_APP_SC_DISABLE_SPEEDY\n  === 'false'\n  ? false\n  : process.env.REACT_APP_SC_DISABLE_SPEEDY\n  : typeof process.env.SC_DISABLE_SPEEDY !== 'undefined' && \n  process.env.SC_DISABLE_SPEEDY !== ''\n  ? process.env.SC_DISABLE_SPEEDY\n  : process.env.SC_DISABLE_SPEEDY === 'false'\n  ? false\n  : process.env.SC_DISABLE_SPEEDY\n  : process.env.NODE_ENV !== 'production'\n  ? false\n  : false\n);\n\n// Shared empty execution context when generating static styles\n\nexport const STATIC_EXECUTION_CONTEXT = {};\n\n// @flow\nimport errorMap from './errors';\n\nconst ERRORS = process.env.NODE_ENV !== 'production' ? errorMap : {};\n\n/**\n * super basic version of sprintf\n *\nfunction format(...args) {\n  let a = args[0];\n  const b = [];\n  for (let c = 1, len = args.length; c < len; c += 1) {\n    b.push(args[c]);\n  }\n  b.forEach(d => {\n    a = a.replace(/%[a-z]/, d);\n  });\n  return a;\n}\n\n/**\n * Create an error file out of errors.md for development and a simple web link to the full errors\n * in

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production mode.\n *\nexport default function throwStyledComponentsError(\n  code: string | number,\n  ...interpolations: Array<any>)\n) {\n  if (process.env.NODE_ENV === 'production') {\n    throw new Error(\n      `An error occurred. See https://git.io/JUIaE#${code} for more information.`\n    );\n  } else {\n    throw new Error(\n      format(ERRORS[code],\n        ...interpolations).trim());\n  }\n}\n\n,"export default {\n  "1": "\nCannot create styled-component for component: %s.\n\n","2": "\nCan't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n","3": "\nStreaming SSR is only supported in a Node.js environment; Please do not try to call this method in the browser.\n\n","4": "\nThe `StyleSheetManager` expects a valid target or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n- Does this error occur on the server and is the sheet falsy?\n\n","5": "\nThe clone method cannot be used on the client!\n\n- Are you running in a client-like environment on the server?\n- Are you trying to run SSR on the client?\n\n","6": "\nTrying to insert a new style tag, but the given Node is unmounted!\n\n- Are you using a custom target that isn't mounted?\n- Does your document not have a valid head element?\n- Have you accidentally removed a style tag manually?\n\n","7": "\nThemeProvider: Please return an object from your `theme` prop function, e.g.\n\n``js\ntheme={ () => ({}) }\n``\n\n","8": "\nThemeProvider: Please make your `theme` prop an object.\n\n","9": "\nMissing document `<head>`\n\n","10": "\nCannot find a StyleSheet instance. Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases where this situation can happen: https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021\n\n","11": "\n_This error was replaced with a dev-time warning, it will be deleted for v4 final._ [createGlobalStyle] received children which will not be rendered. Please use the component without passing children elements.\n\n","12": "\nIt seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css` helper which ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n","13": "\n%s is not a styled component and cannot be referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-components for more details.\n\n","14": "\nThemeProvider: `theme` prop is required.\n\n","15": "\nA stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g.\n\n``js\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });\n``\n\n","16": "\nReached the limit of how many styled components may be created at group %s.\n\nYou may only create up to 1,073,741,824 components. If you're creating components dynamically,\n\nas for instance in your render method then you may be running into this limitation.\n\n","17": "\nCSSStyleSheet could not be found on HTMLStyleElement.\n\nHas styled-components' style tag been unmounted or altered by another script?`";\n\n//\n@flow\n/* eslint-disable no-use-before-define */\n\nimport type { GroupedTag, Tag } from './types';\nimport { SPLITTER } from './constants';\nimport throwError from './utils/error';\n\n/** Create a GroupedTag with an underlying Tag implementation */\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n  return new DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements GroupedTag {\n  groupSizes: Uint32Array;\n\n  length: number;\n\n  tag: Tag;\n\n  constructor(tag: Tag) {\n    this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n  }\n\n  indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n      index += this.groupSizes[i];\n    }\n\n    return index;\n  }\n\n  insertRules(group: number, rules: string[]): void {\n    if (group >= this.groupSizes.length) {\n      const oldBuffer = this.groupSizes;\n      const oldSize = oldBuffer.length;\n\n      let newSize = oldSize;\n      while (group >= newSize) {\n        newSize <<= 1;\n        if (newSize < 0) {\n          throwError(16, `${group}`);\n        }\n\n        this.groupSizes = new Uint32Array(newSize);\n        this.groupSizes.set(oldBuffer);\n        this.length = newSize;\n\n        for (let i = oldSize; i < newSize; i++) {\n          this.groupSizes[i] = 0;\n        }\n\n        let ruleIndex = this.indexOfGroup(group + 1);\n
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for (let i = 0, l = rules.length; i < l; i++) {\n    if (this.tag.insertRule(ruleIndex, rules[i])) {\n
this.groupSizes[group]++;;\n    ruleIndex++;;\n    }\n }\n\n clearGroup(group: number): void {\n    if
(group < this.length) {\n    const length = this.groupSizes[group];;\n    const startIndex =
this.indexOfGroup(group);;\n    const endIndex = startIndex + length;;\n\n    this.groupSizes[group] = 0;;\n\n    for
(let i = startIndex; i < endIndex; i++) {\n    this.tag.deleteRule(startIndex);;\n    }\n }\n\n getGroup(group:
number): string {\n    let css = ";;\n    if (group >= this.length
|| this.groupSizes[group] === 0) {\n    return css;;\n    }\n\n    const length = this.groupSizes[group];;\n    const
startIndex = this.indexOfGroup(group);;\n    const endIndex = startIndex + length;;\n\n    for (let i = startIndex; i <
endIndex; i++) {\n    css += `${this.tag.getRule(i)}${SPLITTER}`;;\n    }\n\n    return css;;\n }\n\n"}//
@flow\n\nimport throwError from './utils/error';;\n\nconst MAX_SMI = 1 << 31 - 1;;\n\nlet groupIDRegister:
Map<string, number> = new Map();;\n\nlet reverseRegister: Map<number, string> = new Map();;\n\nlet nextFreeGroup =
1;;\n\nexport const resetGroupIds = () => {\n    groupIDRegister = new Map();;\n    reverseRegister = new Map();;\n
nextFreeGroup = 1;;\n};;\n\nexport const getGroupForId = (id: string): number => {\n    if (groupIDRegister.has(id))
{\n    return (groupIDRegister.get(id): any);;\n    }\n\n    while (reverseRegister.has(nextFreeGroup)) {\n
nextFreeGroup++;;\n    }\n\n    const group = nextFreeGroup++;;\n\n    if ((\n    process.env.NODE_ENV !== 'production'
&&\n    ((group | 0) < 0 || group > MAX_SMI)\n    ) {\n    throwError(16, `${group}`);;\n    }\n\n    groupIDRegister.set(id, group);;\n    reverseRegister.set(group, id);;\n    return group;;\n};;\n\nexport const
getIdForGroup = (group: number): void | string => {\n    return reverseRegister.get(group);;\n};;\n\nexport const
setGroupForId = (id: string, group: number) => {\n    if (group >= nextFreeGroup) {\n    nextFreeGroup = group +
1;;\n    }\n\n    groupIDRegister.set(id, group);;\n    reverseRegister.set(group, id);;\n};;\n\n"}// @flow\n\nimport {
SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';;\n\nimport
{ getIdForGroup, setGroupForId } from './GroupIDAllocator';;\n\nimport type { Sheet } from './types';;\n\nconst
SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;;\n\nconst MARKER_RE =
new RegExp(`^${SC_ATTR}\\\\.g(\\\\\\\\d+)\\\\\\\\[id=\\\"(\\\\\\\\w\\\\\\\\d+)-\\\"\\\\\\\\.?!\"([\\^"]*)`);;\n\nexport const outputSheet =
(sheet: Sheet) => {\n    const tag = sheet.getTag();;\n
const { length } = tag;;\n\n    let css = ";;\n    for (let group = 0; group < length; group++) {\n    const id =
getIdForGroup(group);;\n    if (id === undefined) continue;;\n\n    const names = sheet.names.get(id);;\n    const rules
= tag.getGroup(group);;\n    if (!names || !rules || !names.size) continue;;\n\n    const selector =
`${SC_ATTR}.g${group}[id=\\\"${id}\\\"]`;;\n\n    let content = ";;\n    if (names !== undefined) {\n
names.forEach(name => {\n    if (name.length > 0) {\n    content += `${name},`;;\n    }\n });;\n }\n\n //
NOTE: It's easier to collect rules and have the marker\n // after the actual rules to simplify the rehydration\n css
+= `${rules}${selector}{content: "${content}"}${SPLITTER}`;;\n }\n\n    return css;;\n};;\n\nconst
rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n    const names = content.split(',');;\n
let name;;\n    for (let i = 0, l = names.length; i < l; i++) {\n    // eslint-disable-next-line\n    if
((name = names[i])) {\n    sheet.registerName(id, name);;\n    }\n };;\n\nconst rehydrateSheetFromTag = (sheet:
Sheet, style: HTMLStyleElement) => {\n    const parts = (style.textContent || "").split(SPLITTER);;\n    const rules:
string[] = [];;\n\n    for (let i = 0, l = parts.length; i < l; i++) {\n    const part = parts[i].trim();;\n    if (!part) continue;;\n\n
const marker = part.match(MARKER_RE);;\n    if (marker) {\n    const group = parseInt(marker[1], 10) | 0;;\n
const id = marker[2];;\n    if (group !== 0) {\n    // Rehydrate componentId to group index mapping\n
setGroupForId(id, group);;\n    // Rehydrate names and rules\n    // looks like: data-
styled.g11[id=idA]{content:"nameA,"}\n    rehydrateNamesFromContent(sheet, id, marker[3]);;\n
sheet.getTag().insertRules(group, rules);;\n    }\n\n    rules.length = 0;;\n    } else {\n    rules.push(part);;\n    }\n
};;\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n    const nodes
= document.querySelectorAll(SELECTOR);;\n\n    for (let i = 0, l = nodes.length; i < l; i++) {\n    const node =
((nodes[i]: any): HTMLStyleElement);;\n    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)
{\n    rehydrateSheetFromTag(sheet, node);;\n    if (node.parentNode) {\n
node.parentNode.removeChild(node);;\n    }\n }\n };;\n\n"}// @flow\n\n/* eslint-disable camelcase, no-undef
*/\n\ndeclare var __webpack_nonce__: string;;\n\nconst getNonce = () => {\n    return typeof __webpack_nonce__

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!=='undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n", "/* @flow\n\nimport { SC_ATTR,
SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from
 './utils/nonce';\nimport throwError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /*
Node.ELEMENT_TYPE */\n\n/** Find last style element if any inside target */\nconst findLastStyleTag = (target:
HTMLDivElement): void | HTMLStyleElement => {\n  const { childNodes } = target;\n\n  for (let i = childNodes.length; i >= 0; i--) {\n    const child = ((childNodes[i]: any): ?HTMLDivElement);\n    if (child
&& child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n      return ((child: any):
HTMLStyleElement);\n    }\n  }\n\n  return undefined;\n};\n\n/** Create a style element inside `target` or <head>
after the last */\nexport const makeStyleTag = (target?: HTMLDivElement): HTMLStyleElement => {\n  const head =
((document.head: any): HTMLDivElement);\n  const parent = target || head;\n  const style =
document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling = prevStyle
!=='undefined' ? prevStyle.nextSibling : null;\n  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n  const nonce = getNonce();\n  if (nonce)
style.setAttribute('nonce', nonce);\n  parent.insertBefore(style, nextSibling);\n  return style;\n};\n\n/** Get the
CSSStyleSheet instance for a given style
element */\nexport const getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return
((tag.sheet: any): CSSStyleSheet);\n  }\n\n  // Avoid Firefox quirk where the style element might not have a sheet
property\n  const { styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n    const sheet =
styleSheets[i];\n    if (sheet.ownerNode === tag) {\n      return ((sheet: any): CSSStyleSheet);\n    }\n  }\n\n  throwStyledError(17);\n  return (undefined: any);\n};\n\n", "/* @flow\n\n/* eslint-disable no-use-before-define
*/\n\nimport { makeStyleTag, getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/**
Create a CSSStyleSheet-like tag depending on the environment */\nexport const makeTag = ({ isServer,
useCSSOMInjection, target }: SheetOptions): Tag => {\n  if (isServer) {\n    return new VirtualTag(target);\n  } else
if (useCSSOMInjection) {\n    return new CSSOMTag(target);\n  } else {\n    return new TextTag(target);\n  }\n};\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n\n  sheet:
CSSStyleSheet;\n\n  length: number;\n\n  constructor(target?: HTMLDivElement) {\n    const element = (this.element =
makeStyleTag(target));\n\n    // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode("")); \n\n    this.sheet = getSheet(element);\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    try {\n      this.sheet.insertRule(rule, index);\n      this.length++;\n      return true;\n    } catch (_error) {\n      return false;\n    }\n  }\n\n  deleteRule(index: number):
void {\n    this.sheet.deleteRule(index);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    const rule =
this.sheet.cssRules[index];\n    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n    if (rule
!=='undefined' && typeof rule.cssText === 'string') {\n      return rule.cssText;\n    } else {\n      return ";\n    }\n  }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes
*/\nexport class TextTag implements Tag {\n  element: HTMLStyleElement;\n\n  nodes: NodeList<Node>;\n\n  length: number;\n\n  constructor(target?: HTMLDivElement) {\n    const element = (this.element =
makeStyleTag(target));\n    this.nodes = element.childNodes;\n    this.length = 0;\n  }\n\n  insertRule(index: number,
rule: string): boolean {\n    if (index <= this.length && index >= 0) {\n      const node =
document.createTextNode(rule);\n      const refNode = this.nodes[index];\n      this.element.insertBefore(node,
refNode || null);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n\n  deleteRule(index:
number): void {\n    this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n\n  getRule(index:
number): string {\n    if (index < this.length) {\n      return this.nodes[index].textContent;\n    } else {\n      return ";\n    }\n  }\n}\n\n/** A completely virtual (server-side) Tag that doesn't manipulate the DOM */\nexport class
VirtualTag implements Tag {\n  rules: string[];\n\n  length: number;\n\n  constructor(_target?: HTMLDivElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <=
this.length) {\n      this.rules.splice(index, 0, rule);\n      this.length++;\n      return true;\n    } else {\n      return
false;\n    }\n  }\n\n  deleteRule(index: number): void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    if (index < this.length) {\n      return this.rules[index];\n    } else {\n      return

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";\n  }\n }\n}" ,// @flow\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport {
EMPTY_OBJECT } from './utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport {
getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet
} from './Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from
 './types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\nntype SheetConstructorArgs = {\n isServer?:
boolean,\n useCSSOMInjection?: boolean,\n target?: HTMLElement,\n};\n\nntype GlobalStylesAllocationMap = {
[key: string]: number }; \nntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions:
SheetOptions = {\n isServer: !IS_BROWSER,\n useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains
the main stylesheet logic for stringification and caching */\n\nexport default class StyleSheet implements Sheet {\n
gs: GlobalStylesAllocationMap;\n\n names: NamesAllocationMap;\n\n options: SheetOptions;\n\n server:
boolean;\n\n tag: void | GroupedTag;\n\n /** Register a group ID to give it an index */\n\n static registerId(id:
string): number {\n return getGroupForId(id);\n }\n\n constructor(\n options: SheetConstructorArgs =
EMPTY_OBJECT,\n globalStyles?:
GlobalStylesAllocationMap = {},\n names?: NamesAllocationMap\n ) {\n this.options = {\n
...defaultOptions,\n ...options,\n }; \n\n this.gs = globalStyles;\n this.names = new Map(names);\n
this.server = !options.isServer;\n\n // We rehydrate only once and use the sheet that is created first\n if
(!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n SHOULD_REHYDRATE = false;\n
rehydrateSheet(this);\n }\n }\n\n reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =
true) {\n return new StyleSheet(\n { ...this.options, ...options },\n this.gs,\n (withNames && this.names) ||
undefined\n );\n }\n\n allocateGSInstance(id: string) {\n return (this.gs[id] = (this.gs[id] || 0) + 1);\n }\n\n /**
Lazily initialises a GroupedTag for when it's actually needed */\n\n getTag(): GroupedTag {\n return this.tag ||
(this.tag = makeGroupedTag(makeTag(this.options))); \n }\n\n /** Check whether a name is known
for caching */\n\n hasNameForId(id: string, name: string): boolean {\n return this.names.has(id) &&
(this.names.get(id): any).has(name);\n }\n\n /** Mark a group's name as known for caching */\n\n registerName(id:
string, name: string) {\n getGroupForId(id);\n\n if (!this.names.has(id)) {\n const groupNames = new Set();\n
groupNames.add(name);\n this.names.set(id, groupNames);\n } else {\n (this.names.get(id):
any).add(name);\n }\n }\n\n /** Insert new rules which also marks the name as known */\n\n insertRules(id: string,
name: string, rules: string[]) {\n this.registerName(id, name);\n this.getTag().insertRules(getGroupForId(id),
rules);\n }\n\n /** Clears all cached names for a given group ID */\n\n clearNames(id: string) {\n if
(this.names.has(id)) {\n (this.names.get(id): any).clear();\n }\n }\n\n /** Clears all rules for a given group ID
*/\n\n clearRules(id: string) {\n this.getTag().clearGroup(getGroupForId(id));\n
this.clearNames(id);\n }\n\n /** Clears the entire tag which deletes all rules but not its names */\n\n clearTag() {\n
// NOTE: This does not clear the names, since it's only used during SSR\n // so that we can continuously output
only new rules\n this.tag = undefined;\n }\n\n /** Outputs the current sheet as a CSS string with markers for SSR
*/\n\n toString(): string {\n return outputSheet(this);\n }\n\n}" ,// @flow\n\n/* eslint-disable no-bitwise */\n\nconst
AD_REPLACER_R = /(a)(d)(g)(i)/;\n\n/* This is the "capacity" of our alphabet i.e. 2x26 for all letters plus their
capitalised\n * counterparts */\n\nconst charsLength = 52;\n\n/* start at 75 for 'a' until 'z' (25) and then start at 65 for
capitalised letters */\n\nconst getAlphabeticChar = (code: number): string =>\n String.fromCharCode(code + (code >
25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to base-52 */\n\nexport default function
generateAlphabeticName(code: number): string {\n let name = "";\n
let x;\n\n /* get a char and divide by alphabet-length */\n for (x = Math.abs(code); x > charsLength; x = (x /
charsLength) | 0) {\n name = getAlphabeticChar(x % charsLength) + name;\n }\n\n return (getAlphabeticChar(x
% charsLength) + name).replace(AD_REPLACER_R, '$1-$2');\n }\n\n}" ,// @flow\n\n/* eslint-disable */\n\nexport const
SEED = 5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we
pretend that we're still looping over\n// the same string\n\nexport const phash = (h: number, x: string): number => {\n
let i = x.length;\n\n while (i) {\n h = (h * 33) ^ x.charCodeAt(--i);\n }\n\n return h;\n }\n\n// This is a djb2
hashing function\n\nexport const hash = (x: string): number => {\n return phash(SEED, x);\n }\n\n}" ,// @flow\n\nimport
isFunction from './isFunction';\nimport isStyledComponent from './isStyledComponent';\nimport type { RuleSet }

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from './types';\n\nexport default function isStaticRules(rules: RuleSet): boolean {\n
  for (let i = 0; i < rules.length; i += 1) {\n    const rule = rules[i];\n    if (isFunction(rule) &&\n
!isStyledComponent(rule)) {\n      // functions are allowed to be static if they're just being\n      // used to get the\n      classname of a nested styled component\n      return false;\n    }\n  }\n  return true;\n}\n\n"/ @flow\n\nimport {\n
SC_VERSION } from './constants';\n\nimport StyleSheet from './sheet';\n\nimport type { RuleSet, Stringifier } from\n
'./types';\n\nimport flatten from './utils/flatten';\n\nimport generateName from\n
'./utils/generateAlphabeticName';\n\nimport { hash, phash } from './utils/hash';\n\nimport isStaticRules from\n
'./utils/isStaticRules';\n\nconst SEED = hash(SC_VERSION);\n\n/**\n * ComponentStyle is all the CSS-specific\n
stuff, not the React-specific stuff.\n */\n\nexport default class ComponentStyle {\n  baseHash: number;\n\n  baseStyle:\n
?ComponentStyle;\n\n  componentId: string;\n\n  isStatic: boolean;\n\n  rules: RuleSet;\n\n  staticRulesId: string;\n\n
constructor(rules:\n
  RuleSet, componentId: string, baseStyle?: ComponentStyle) {\n    this.rules = rules;\n    this.staticRulesId = "";\n
this.isStatic = process.env.NODE_ENV === 'production' &&\n    (baseStyle === undefined || baseStyle.isStatic)\n
&&\n    isStaticRules(rules);\n    this.componentId = componentId;\n\n    // SC_VERSION gives us isolation\n
between multiple runtimes on the page at once\n    // this is improved further with use of the babel plugin\n
`"namespace"` feature\n    this.baseHash = phash(SEED, componentId);\n    this.baseStyle = baseStyle;\n\n    //\n
NOTE: This registers the componentId, which ensures a consistent order\n    // for this component's styles compared\n
to others\n    StyleSheet.registerId(componentId);\n  }\n\n  /*\n * Flattens a rule set into valid CSS\n * Hashes it,\n
wraps the whole chunk in a .hash1234 { }\n * Returns the hash to be injected on render()\n */\n\n  generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier)\n
  {\n    const { componentId } = this;\n    const names = [];\n    if (this.baseStyle) {\n      names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));\n    }\n\n    // force\n
dynamic classnames if user-supplied stylis plugins are in use\n    if (this.isStatic && !stylis.hash) {\n      if\n
(this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {\n        names.push(this.staticRulesId);\n      } else {\n        const cssStatic = flatten(this.rules, executionContext, styleSheet,\n
stylis).join("");\n        const name = generateName(phash(this.baseHash, cssStatic) >>> 0);\n        if\n
(!styleSheet.hasNameForId(componentId, name)) {\n          const cssStaticFormatted = stylis(cssStatic, `.${name}`,\n
undefined, componentId);\n          styleSheet.insertRules(componentId, name, cssStaticFormatted);\n        }\n\n        names.push(name);\n        this.staticRulesId = name;\n      }\n    } else {\n      const { length } = this.rules;\n
      let dynamicHash = phash(this.baseHash, stylis.hash);\n      let css = "";\n      for (let i = 0; i < length; i++) {\n        const partRule = this.rules[i];\n        if (typeof partRule === 'string') {\n          css += partRule;\n\n          if\n
(process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule + i);\n        } else if\n
(partRule) {\n          const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n          const\n
partString = Array.isArray(partChunk) ? partChunk.join("") : partChunk;\n          dynamicHash =\n
phash(dynamicHash, partString + i);\n          css += partString;\n        }\n      }\n\n      if (css) {\n        const name =\n
generateName(dynamicHash >>> 0);\n        if (!styleSheet.hasNameForId(componentId, name)) {\n          const\n
cssFormatted = stylis(css, `.${name}`, undefined, componentId);\n          styleSheet.insertRules(componentId, name,\n
cssFormatted);\n        }\n      }\n      names.push(name);\n    }\n  }\n\n  }\n\n  return names.join(' ');\n}\n\n"/\n\nimport Stylis from '@emotion/stylis';\n\nimport { type Stringifier }\n
from './types';\n\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\n\nimport throwStyledError from\n
'./error';\n\nimport { phash, SEED } from './hash';\n\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst\n
COMMENT_REGEX = /^\\s*\\|\\|\\. *$/gm;\n\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\nntype\n
StylisInstanceConstructorArgs = {\n  options?: Object,\n  plugins?: Array<Function>,\n};\n\nexport default function\n
createStylisInstance({\n  options = EMPTY_OBJECT,\n  plugins = EMPTY_ARRAY,\n}):\n
StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n  const stylis = new Stylis(options);\n\n  // Wrap\n
`insertRulePlugin` to build a list of rules,\n  // and then make our own plugin to return the rules. This\n  // makes it\n
easier to hook into the existing SSR architecture\n\n  let parsingRules = [];\n\n  // eslint-disable-next-line consistent-\n
return\n  const returnRulesPlugin

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= context => {\n  if (context === -2) {\n    const parsedRules = parsingRules;\n    parsingRules = [];\n    return
parsedRules;\n  }\n};\n\n const parseRulesPlugin = insertRulePlugin(rule => {\n  parsingRules.push(rule);\n
});\n\n let _componentId: string;\n let _selector: string;\n let _selectorRegexp: RegExp;\n let
_consecutiveSelfRefRegExp: RegExp;\n\n const selfReferenceReplacer = (match, offset, string) => {\n  if (\n  //
do not replace the first occurrence if it is complex (has a modifier)\n    (offset === 0 ?
COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 : true) &&\n    // no consecutive self
refs (.b.b); that is a precedence boost and treated differently\n    !string.match(_consecutiveSelfRefRegExp)\n  )
{\n    return `.${_componentId}`;\n  }\n\n  return match;\n};\n\n /**\n * When writing a style like\n * \n *
& + & {\n *   color: red;\n * }\n * \n * The second ampersand should be a reference
to the static component class. stylis\n * has no knowledge of static class so we have to intelligently replace the
base selector.\n * \n * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the context
phase values\n * \"2\" means this plugin is taking effect at the very end after all other processing is complete\n
*\n const selfReferenceReplacementPlugin = (context, _, selectors) => {\n  if (context === 2 && selectors.length
&& selectors[0].lastIndexOf(_selector) > 0) {\n    // eslint-disable-next-line no-param-reassign\n    selectors[0] =
selectors[0].replace(_selectorRegexp, selfReferenceReplacer);\n  }\n};\n\n stylis.use([...plugins,
selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n\n function stringifyRules(css, selector,
prefix, componentId = '&'): Stringifier {\n  const flatCSS = css.replace(COMMENT_REGEX, '');\n  const cssStr
= selector && prefix ? `${prefix} ${selector} { ${flatCSS} }` : flatCSS;\n\n
  // stylis has no concept of state to be passed to plugins\n  // but since JS is single-threaded, we can rely on that to
ensure\n  // these properties stay in sync with the current stylis run\n  _componentId = componentId;\n  _selector
= selector;\n  _selectorRegexp = new RegExp(`\\${_selector}\\b`, 'g');\n  _consecutiveSelfRefRegExp = new
RegExp(`\\${_selector}\\b{2,}`);\n\n  return stylis(prefix || !selector ? " : selector, cssStr);\n }\n\n
stringifyRules.hash = plugins.length\n  ? plugins\n    .reduce((acc, plugin) => {\n      if (!plugin.name) {\n
        throw StyledError(15);\n      }\n      return phash(acc, plugin.name);\n    }, SEED)\n    .toString()\n  :
";\n\n return stringifyRules;\n}\n\n", /**\n * MIT License\n * \n * Copyright (c) 2016 Sultan Tarimo\n * \n *
Permission is hereby granted, free of charge, to any person obtaining a copy of\n * this software and associated
documentation files (the \"Software\"),\n
* to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or\n * sell copies of the Software and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:\n * \n * The above copyright notice and this permission
notice shall be included in all\n * copies or substantial portions of the Software.\n * \n * THE SOFTWARE IS
PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n * OR IMPLIED INCLUDING
BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n * AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,\n * WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR\n * IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.\n */\n\n/* eslint-disable
*/\n\nexport default function(insertRule) {\n  const
delimiter = '*/';\n  const needle = `${delimiter}`;\n\n  function toSheet(block) {\n    if (block) {\n      try {\n
        insertRule(`${block}`);\n      } catch (e) {\n        }\n      }\n\n    return function ruleSheet(\n      context,\n      content,\n
selectors,\n      parents,\n      line,\n      column,\n      length,\n      ns,\n      depth,\n      at\n    ) {\n      switch (context) {\n        //
property\n        case 1:\n          // @import\n          if (depth === 0 && content.charCodeAt(0) === 64) return
insertRule(`${content};`), "\n          break;\n          // selector\n          case 2:\n            if (ns === 0) return content +
delimiter;\n            break;\n            // at-rule\n            case 3:\n              switch (ns) {\n                // @font-face, @page\n                case
102:\n                  case 112:\n                    return insertRule(selectors[0] + content), "\n                default:\n                  return content +
(at === 0 ? delimiter : ");\n              }\n            case -2:\n              content.split(needle).forEach(toSheet);\n            }\n          }\n\n", "//
@flow\nimport React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\nimport
shallowequal from 'shallowequal';\nimport StyleSheet from './sheet';\nimport type { Stringifier } from

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'./types';\nimport createStylisInstance from './utils/stylis';\n\n type Props = {\n  children?: Node,\n  disableCSSOMInjection?: boolean,\n  disableVendorPrefixes?: boolean,\n  sheet?: StyleSheet,\n  stylisPlugins?:\n  Array<Function>,\n  target?: HTMLElement,\n};\n\nexport const StyleSheetContext: Context<StyleSheet | void> =\n  React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const\n  StylisContext: Context<Stringifier | void> = React.createContext();\nexport const StylisConsumer =\n  StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:\n  Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n  return\n  useContext(StyleSheetContext) || masterSheet;\n}\n\nexport\n  function useStylis(): Stringifier {\n  return useContext(StylisContext) || masterStylis;\n}\n\nexport default function\n  StyleSheetManager(props: Props) {\n  const [plugins, setPlugins] = useState(props.stylisPlugins);\n  const\n  contextStyleSheet = useStyleSheet();\n\n  const styleSheet = useMemo(() => {\n    let sheet = contextStyleSheet;\n    if (props.sheet) {\n      // eslint-disable-next-line prefer-destructuring\n      sheet = props.sheet;\n    } else if\n  (props.target) {\n    sheet = sheet.reconstructWithOptions({ target: props.target }, false);\n  }\n  if\n  (props.disableCSSOMInjection) {\n    sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });\n  }\n\n  return sheet;\n}, [props.disableCSSOMInjection, props.sheet, props.target]);\n\n  const stylis = useMemo(\n    () =>\n    createStylisInstance({\n      options: { prefix: !props.disableVendorPrefixes },\n      plugins,\n    }),\n    [props.disableVendorPrefixes, plugins]\n  );\n\n  useEffect(() => {\n    if (!shallowequal(plugins, props.stylisPlugins))\n      setPlugins(props.stylisPlugins);\n  },\n  [props.stylisPlugins]);\n\n  return (\n    <StyleSheetContext.Provider value={styleSheet}>\n    <StylisContext.Provider value={stylis}>\n      {process.env.NODE_ENV !== 'production'\n        ?\n        React.Children.only(props.children)\n        : props.children}\n    </StylisContext.Provider>\n  </StyleSheetContext.Provider>\n  );\n}\n\n"/ @flow\nimport StyleSheet from './sheet';\nimport { type Stringifier }\nfrom './types';\nimport throwStyledError from './utils/error';\nimport { masterStylis } from\n  './StyleSheetManager';\n\nexport default class Keyframes {\n  id: string;\n\n  name: string;\n\n  rules: string;\n\n  constructor(name: string, rules: string) {\n    this.name = name;\n    this.id = `sc-keyframes-${name}`;\n    this.rules\n  = rules;\n  }\n\n  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n    const\n    resolvedName\n    = this.name + stylisInstance.hash;\n\n    if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n      styleSheet.insertRules(\n        this.id,\n        resolvedName,\n        stylisInstance(this.rules, resolvedName,\n        '@keyframes')\n      );\n    }\n\n    toString = () => {\n      return throwStyledError(12, String(this.name));\n    }\n\n    getName(stylisInstance: Stringifier = masterStylis) {\n      return this.name + stylisInstance.hash;\n    }\n  }\n}\n\n"/ @flow\n\n/**\n * inlined version of\n *\n * https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n *\n * const\n  uppercaseCheck = /([A-Z]);\n  const uppercasePattern = /([A-Z])/g;\n  const msPattern = /^ms-;\n  const\n  prefixAndLowerCase = (char: string): string => `-${char.toLowerCase}`;\n\n * Hyphenates a camelcased\n  CSS property name, for example:\n *\n * > hyphenateStyleName('backgroundColor')\n * < \"background-color\"\n *\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n *\n * >\n  hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n *\n * As Modernizr suggests\n  (http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `ms-`.\n *\n * @param {string} string\n *\n * @return {string}\n */\n\nexport default function hyphenateStyleName(string: string): string {\n  return\n  uppercaseCheck.test(string)\n    ? string\n    .replace(uppercasePattern, prefixAndLowerCase)\n    .replace(msPattern,\n    '-ms-')\n  : string;\n}\n\n"/ @flow\nimport { isElement } from 'react-is';\nimport getComponentName from\n  './getComponentName';\nimport isFunction from './isFunction';\nimport isStatelessFunction from\n  './isStatelessFunction';\nimport isPlainObject from './isPlainObject';\nimport isStyledComponent from\n  './isStyledComponent';\nimport Keyframes from './models/Keyframes';\nimport hyphenate from\n  './hyphenateStyleName';\nimport addUnitIfNeeded from './addUnitIfNeeded';\nimport { type Stringifier } from\n  './types';\n\n/**\n * It's falsish not falsy because 0 is allowed.\n */

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*^nconst isFalsish = chunk => chunk === undefined || chunk === null || chunk === false || chunk === "";n\nexport
const objToCssArray = (obj: Object, prevKey?: string): Array<string | Function> => {n const rules = [];n\n for
(const key in obj) {n if (!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;n\n if
((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {n rules.push(`${hyphenate(key)}:`,
obj[key], `;`);n } else if (isPlainObject(obj[key])) {n rules.push(...objToCssArray(obj[key], key));n } else
{n rules.push(`${hyphenate(key)}: ${addUnitIfNeeded(key, obj[key])};`);n }n }n\n return prevKey ?
[`${prevKey} {`, ...rules, `}`]: rules;n};n\nexport default function flatten(n chunk: any,n executionContext:
?Object,n styleSheet: ?Object,n stylisInstance: ?Stringifier)n: any {n if (Array.isArray(chunk)) {n const
ruleSet = [];n\n for (let i = 0, len = chunk.length, result; i < len; i += 1) {n
result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);n\n if (result === "") continue;n else
if (Array.isArray(result)) ruleSet.push(...result);n else ruleSet.push(result);n }n\n return ruleSet;n }n\n if
(isFalsish(chunk)) {n return "";n }n\n /* Handle other components */n if (isStyledComponent(chunk)) {n
return `.${chunk.styledComponentId}`;n }n\n /* Either execute or defer the function */n if (isFunction(chunk))
{n if (isStatelessFunction(chunk) && executionContext) {n const result = chunk(executionContext);n\n if
(process.env.NODE_ENV !== 'production' && isElement(result)) {n // eslint-disable-next-line no-console\n
console.warn(n `.${getComponentName(n chunk\n )} is not a styled component and cannot be
referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-
components for more details.`n );n
}n\n return flatten(result, executionContext, styleSheet, stylisInstance);n } else return chunk;n }n\n if
(chunk instanceof Keyframes) {n if (styleSheet) {n chunk.inject(styleSheet, stylisInstance);n return
chunk.getName(stylisInstance);n } else return chunk;n }n\n /* Handle objects */n return isPlainObject(chunk)
? objToCssArray(chunk) : chunk.toString();n}n", // @flow\nexport default function isStatelessFunction(test: any):
boolean {n return (n typeof test === 'function' && !(n test.prototype\n &&
test.prototype.isReactComponent\n )n );n}n", // @flow\nimport unitless from '@emotion/unitless';n\n// Taken
from https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js\nexport default function addUnitIfNeeded(name: string, value: any): any {n
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n // $FlowFixMe\n if
(value == null || typeof value === 'boolean' || value === "") {n return "";n }n\n if (typeof value === 'number' &&
value !== 0 && !(name in unitless) && !name.startsWith('--')) {n return `${value}px`; // Presumes implicit 'px'
suffix for unitless numbers except for CSS variables\n }n\n return String(value).trim();n}n", // @flow\nimport
interleave from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport { EMPTY_ARRAY }
from './utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from './utils/flatten';\nimport
type { Interpolation, RuleSet, Styles } from './types';n\n/**\n * Used when flattening object styles to determine if
we should\n * expand an array of styles.\n */n\nconst addTag = arg => {n if (Array.isArray(arg)) {n // eslint-
disable-next-line no-param-reassign\n arg.isCss = true;n }n return arg;n};n\nexport default function css(styles:
Styles, ...interpolations: Array<Interpolation>): RuleSet
{n if (isFunction(styles) || isPlainObject(styles)) {n // $FlowFixMe\n return
addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));n }n\n if (interpolations.length === 0
&& styles.length === 1 && typeof styles[0] === 'string') {n // $FlowFixMe\n return styles;n }n\n //
$FlowFixMe\n return addTag(flatten(interleave(styles, interpolations)));n}n", // @flow\nimport { useRef } from
'react';n\nconst invalidHookCallRe = /invalid hook call/i;n\nconst seen = new Set();n\nexport const
checkDynamicCreation = (displayName: string, componentId?: string) => {n if (process.env.NODE_ENV !==
'production') {n const parsedIdString = componentId ? ` with the id of "${componentId}"` : "";n const message
= `The component ${displayName}${parsedIdString} has been created dynamically.`n +n `You may see
this warning because you've called styled inside another component.`n +n `To resolve this only create new
StyledComponents
outside of any render method and function component.`;n\n // If a hook is called outside of a component:n //
React 17 and earlier throw an error\n // React 18 and above use console.error\n\n const originalConsoleError =

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obj[key], key);\n      }\n    }\n  }\n  }\n  }\n  return target;\n}\n\n", "// @flow\nimport React, { useContext, useMemo,\n  type Element, type Context } from 'react';\nimport throwStyledError from '../utils/error';\nimport isFunction from\n  '../utils/isFunction';\n\nexport type Theme = { [key: string]: mixed };\n\nexport type ThemeArgument = Theme | \n  ((outerTheme?: Theme) => Theme);\n\nexport type Props = {\n  children?: Element<any>,\n  theme:\n  ThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void> = React.createContext();\n\nexport\n  const ThemeConsumer = ThemeContext.Consumer;\n\nfunction mergeTheme(theme: ThemeArgument,\n  outerTheme?:\n  Theme): Theme {\n  if (!theme) {\n    return throwStyledError(14);\n  }\n  if (isFunction(theme)) {\n    const\n      mergedTheme = theme(outerTheme);\n\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      (mergedTheme === null || Array.isArray(mergedTheme) ||\n        typeof mergedTheme !== 'object')\n    ) {\n      return\n        throwStyledError(7);\n    }\n\n    return mergedTheme;\n  }\n  if (Array.isArray(theme) ||\n    typeof theme !==\n    'object') {\n    return throwStyledError(8);\n  }\n  return outerTheme ?\n    { ...outerTheme, ...theme } :\n    theme;\n}\n\n/**\n * Provide a theme to an entire react component tree via context\n */\nexport default function\n  ThemeProvider(props: Props) {\n  const outerTheme = useContext(ThemeContext);\n  const themeContext =\n    useMemo(() => mergeTheme(props.theme, outerTheme), [\n      props.theme,\n      outerTheme,\n    ]);\n  if\n    (!props.children) {\n    return null;\n  }\n  return <ThemeContext.Provider\n    value={themeContext}>{props.children}</ThemeContext.Provider>;\n}\n\n", "//\n  @flow\nimport validAttr from '@emotion/is-prop-valid';\nimport hoist from 'hoist-non-react-statics';\nimport\n  React, { createElement, type Ref, useContext } from 'react';\nimport { SC_VERSION } from '../constants';\nimport\n  type {\n    Attrs,\n    IStyledComponent,\n    IStyledStatics,\n    RuleSet,\n    ShouldForwardProp,\n    Target,\n  } from\n    '../types';\nimport { checkDynamicCreation } from\n  '../utils/checkDynamicCreation';\nimport\n  createWarnTooManyClasses from\n  '../utils/createWarnTooManyClasses';\nimport determineTheme from\n  '../utils/determineTheme';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from\n  '../utils/empties';\nimport escape\n  from '../utils/escape';\nimport generateComponentId from\n  '../utils/generateComponentId';\nimport\n  generateDisplayName from\n  '../utils/generateDisplayName';\nimport\n  getComponentName from\n  '../utils/getComponentName';\nimport isFunction from\n  '../utils/isFunction';\nimport isStyledComponent from\n  '../utils/isStyledComponent';\nimport isTag from\n  '../utils/isTag';\nimport\n  joinStrings from\n  '../utils/joinStrings';\nimport merge from\n  '../utils/mixinDeep';\nimport ComponentStyle from\n  './ComponentStyle';\nimport { useStyleSheet, useStylis } from\n  './StyleSheetManager';\nimport { ThemeContext }\n  from './ThemeProvider';\n\nconst identifiers = {};\n\n/* We depend on components having unique IDs */\nfunction\n  generateId(displayName?: string, parentComponentId?: string) {\n  const name =\n    typeof displayName !== 'string' ?\n    'sc' :\n    escape(displayName);\n  // Ensure that no displayName can lead to duplicate componentIds\n  identifiers[name] = (identifiers[name] || 0) + 1;\n  const componentId =\n    `${name}-${generateComponentId(\n      // SC_VERSION gives us isolation between multiple runtimes on the page at once\n      // this is improved further with\n      use of the babel plugin \"namespace\" feature\n      SC_VERSION + name + identifiers[name])\n    }`;\n  return\n    parentComponentId ?\n    `${parentComponentId}-${componentId}` :\n    componentId;\n}\n\nfunction\n  useResolvedAttrs<Config>(theme:\n  any = EMPTY_OBJECT, props: Config, attrs: Attrs) {\n  // NOTE: can't memoize this\n  // returns [context,\n  resolvedAttrs]\n  // where resolvedAttrs is only the things injected by the attrs themselves\n  const context =\n    [...props, theme];\n  const resolvedAttrs = {};\n  attrs.forEach(attrDef => {\n    let resolvedAttrDef = attrDef;\n    let key;\n\n    if (isFunction(resolvedAttrDef)) {\n      resolvedAttrDef = resolvedAttrDef(context);\n    }\n\n    /*\n     eslint-disable guard-for-in */\n    for (key in resolvedAttrDef) {\n      context[key] = resolvedAttrs[key] =\n        key\n        === 'className'\n          ?\n            joinStrings(resolvedAttrs[key], resolvedAttrDef[key])\n          : resolvedAttrDef[key];\n    }\n\n    /*\n     eslint-enable guard-for-in */\n  });\n  return [context, resolvedAttrs];\n}\n\nfunction\n  useInjectedStyle<T>(componentStyle: ComponentStyle,\n  isStatic: boolean,\n  resolvedAttrs: T,\n  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses,\n  string, string>)\n  {\n  const\n    styleSheet = useStyleSheet();\n  const\n    stylis = useStylis();\n\n  const\n    className = isStatic\n    ?\n      componentStyle.generateAndInjectStyles(EMPTY_OBJECT,\n      styleSheet,\n      stylis)\n    :

```

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componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n\n if (process.env.NODE_ENV !==
'production' && !isStatic && warnTooManyClasses) {\n  warnTooManyClasses(className);\n }\n\n return
className;\n}\n\nfunction useStyledComponentImpl(\n forwardedComponent: IStyledComponent,\n props:
Object,\n forwardedRef: Ref<any>,\n isStatic: boolean\n) {\n  const {\n    attrs: componentAttrs,\n
componentStyle,\n  defaultProps,\n  foldedComponentIds,\n  shouldForwardProp,\n  styledComponentId,\n
target,\n  } = forwardedComponent;\n\n  // NOTE: the non-hooks version only subscribes to this when
!componentStyle.isStatic,\n  // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it\n
// should be an immutable value, but behave for now.\n  const theme
= determineTheme(props, useContext(ThemeContext), defaultProps);\n\n  const [context, attrs] =
useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);\n\n  const generatedClassName =
useInjectedStyle(\n    componentStyle,\n    isStatic,\n    context,\n    process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n  );\n\n  const refToForward = forwardedRef;\n\n  const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n\n  const isTargetTag =
isTag(elementToBeCreated);\n  const computedProps = attrs !== props ? { ...props, ...attrs } : props;\n  const
propsForElement = {};\n\n  // eslint-disable-next-line guard-for-in\n  for (const key in computedProps) {\n    if
(key[0] === '$' || key === 'as') continue;\n    else if (key === 'forwardedAs') {\n      propsForElement.as =
computedProps[key];\n    } else if (\n      shouldForwardProp\n      ? shouldForwardProp(key, validAttr,
elementToBeCreated)\n      :
isTargetTag\n      ? validAttr(key)\n      : true\n    ) {\n      // Don't pass through non HTML tags through to HTML
elements\n      propsForElement[key] = computedProps[key];\n    }\n  }\n\n  if (props.style && attrs.style !==
props.style) {\n    propsForElement.style = { ...props.style, ...attrs.style };\n  }\n\n  propsForElement.className =
Array.prototype\n    .concat(\n      foldedComponentIds,\n      styledComponentId,\n      generatedClassName !==
styledComponentId ? generatedClassName : null,\n      props.className,\n      attrs.className\n    )\n    .filter(Boolean)\n    .join(' ');\n\n  propsForElement.ref = refToForward;\n\n  return
createElement(elementToBeCreated, propsForElement);\n}\n\nexport default function createStyledComponent(\n
target: $PropertyType<IStyledComponent, 'target'>,\n options: {\n  attrs?: Attrs,\n  componentId: string,\n
displayName?: string,\n  parentComponentId?: string,\n  shouldForwardProp?: ShouldForwardProp,\n },\n rules:
RuleSet\n) {\n  const isTargetStyledComp = isStyledComponent(target);\n  const isCompositeComponent = !isTag(target);\n\n  const {\n    attrs = EMPTY_ARRAY,\n    componentId = generateId(options.displayName,
options.parentComponentId),\n    displayName = generateDisplayName(target),\n  } = options;\n\n  const
styledComponentId =\n    options.displayName && options.componentId\n    ? `${escape(options.displayName)}-
${options.componentId}`\n    : options.componentId || componentId;\n\n  // fold the underlying StyledComponent
attrs up (implicit extend)\n  const finalAttrs =\n    isTargetStyledComp && ((target: any): IStyledComponent).attrs\n    ? Array.prototype.concat(((target: any): IStyledComponent).attrs, attrs).filter(Boolean)\n    : attrs;\n\n  // eslint-
disable-next-line prefer-destructuring\n  let shouldForwardProp = options.shouldForwardProp;\n\n  if
(isTargetStyledComp && target.shouldForwardProp) {\n    if (options.shouldForwardProp) {\n      // compose
nested shouldForwardProp
calls\n      shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n        (((target: any):
IStyledComponent).shouldForwardProp: any): ShouldForwardProp)(\n          prop,\n          filterFn,\n
elementToBeCreated\n        ) &&\n        ((options.shouldForwardProp: any): ShouldForwardProp)(prop, filterFn,
elementToBeCreated);\n    } else {\n      // eslint-disable-next-line prefer-destructuring\n      shouldForwardProp =
((target: any): IStyledComponent).shouldForwardProp;\n    }\n  }\n\n  const componentStyle = new
ComponentStyle(\n    rules,\n    styledComponentId,\n    isTargetStyledComp ? ((target: Object).componentStyle:
ComponentStyle) : undefined\n  );\n\n  // statically styled-components don't need to build an execution context
object,\n  // and shouldn't be increasing the number of class names\n  const isStatic = componentStyle.isStatic &&
attrs.length === 0;\n\n  /**\n   * forwardRef creates a new interim component, which we'll take advantage of\n   *
instead

```



```

of extending ParentComponent to create _another_ interim class
 */
let WrappedStyledComponent:
IStyledComponent;

const forwardRef = (props, ref) => { // eslint-disable-next-line
useStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);
forwardRef.displayName =
displayName;

WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);
WrappedStyledComponent.attrs = finalAttrs;
WrappedStyledComponent.componentStyle = componentStyle;
WrappedStyledComponent.displayName = displayName;
WrappedStyledComponent.shouldForwardProp =
shouldForwardProp;

// this static is used to preserve the cascade of static classes for component selector
// purposes; this is especially important with usage of the css prop
WrappedStyledComponent.foldedComponentIds
= isTargetStyledComp ? Array.prototype.concat(
((target: any):
IStyledComponent).foldedComponentIds,
((target: any): IStyledComponent).styledComponentId
) : EMPTY_ARRAY;

WrappedStyledComponent.styledComponentId = styledComponentId;

// fold
the underlying StyledComponent target up since we folded the styles
WrappedStyledComponent.target =
isTargetStyledComp ? ((target: any): IStyledComponent).target : target;

WrappedStyledComponent.withComponent = function withComponent(tag: Target) {
const { componentId:
previousComponentId, ...optionsToCopy } = options;
const newComponentId =
previousComponentId
&& `_${previousComponentId}-${isTag(tag) ? tag : escape(getComponentName(tag))}`;
const
newOptions = {
...optionsToCopy,
attrs: finalAttrs,
componentId: newComponentId,
};
return createStyledComponent(tag, newOptions, rules);
};
Object.defineProperty(WrappedStyledComponent,
'defaultProps', {
get() {
return this._foldedDefaultProps;
},
set(obj) {
this._foldedDefaultProps = isTargetStyledComp
? merge({}, ((target: any): IStyledComponent).defaultProps, obj) : obj;
},
});
if
(process.env.NODE_ENV !== 'production') {
checkDynamicCreation(displayName, styledComponentId);
}
WrappedStyledComponent.warnTooManyClasses = createWarnTooManyClasses(
displayName,
styledComponentId
);
// If the Object prototype is frozen, the "toString" property is non-writable. This
means that any objects which inherit this property
// cannot have the property changed using an assignment. If
using strict mode, attempting that will cause an error. If not using strict
// mode, attempting that will be silently
ignored.
// However, we can still explicitly shadow the prototype's "toString" property by defining a new
"toString" property on this object.
Object.defineProperty(WrappedStyledComponent, 'toString', { value: () =>
`_${WrappedStyledComponent.styledComponentId}` });
if (isCompositeComponent) {
hoist<
IStyledStatics,
$PropertyType<IStyledComponent, 'target'>,
{ [key: $Keys<IStyledStatics>]: true }
>(WrappedStyledComponent, ((target: any): $PropertyType<IStyledComponent, 'target'>), {
// all SC-specific
things should not be hoisted
attrs: true,
componentStyle: true,
displayName: true,
foldedComponentIds: true,
shouldForwardProp: true,
styledComponentId: true,
target: true,
withComponent: true,
});
return WrappedStyledComponent;
}
}

import type {
IStyledComponent } from './types';
import getComponentName from './getComponentName';
import isTag from
'./isTag';
export default function generateDisplayName(
target: $PropertyType<IStyledComponent,
'target'>): string {
return isTag(target) ? `styled.${target}` :
`Styled(${getComponentName(target)}`;
}

/**
 * Convenience function for joining strings to form
className chains
 */
export default function joinStrings(a:
?String, b: ?String): ?String {
return a && b ? `${a} ${b}` : a || b;
}

@flow
export const LIMIT =
200;
export default (displayName: string, componentId: string) => {
let generatedClasses = { };
let
warningSeen = false;
return (className: string) => {
if (!warningSeen) {
generatedClasses[className] = true;
if (Object.keys(generatedClasses).length >= LIMIT) {
// Unable to
find latestRule in test environment.
/* eslint-disable no-console, prefer-template */
const parsedIdString
= componentId ? ` with the id of "${componentId}"` : "";
console.warn(
`Over ${LIMIT} classes
were generated for component ${displayName}${parsedIdString}.
` +
`Consider using the attrs method,
together with a style object for frequently changed styles.
` +
`Example:
` +
`const Component
= styled.div.attrs(props => ({
` +
`style: {
` +

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      ' background: props.background, \\n' + \\n      ' }, \\n' + \\n      ' ))`width: 100%;`\\n\\n' + \\n      '
<Component />\\n      );\\n      warningSeen = true;\\n      generatedClasses = { };\\n      }\\n }\\n };\\n};\\n";\\n"//
@flow\\n// Thanks to ReactDOMFactories for this handy list!\\n\\nexport default [\\n 'a',\\n 'abbr',\\n 'address',\\n
'area',\\n 'article',\\n 'aside',\\n 'audio',\\n 'b',\\n 'base',\\n 'bdi',\\n 'bdo',\\n 'big',\\n 'blockquote',\\n 'body',\\n 'br',\\n
'button',\\n 'canvas',\\n 'caption',\\n 'cite',\\n 'code',\\n 'col',\\n 'colgroup',\\n 'data',\\n 'datalist',\\n 'dd',\\n 'del',\\n
'details',\\n 'dfn',\\n 'dialog',\\n 'div',\\n 'dl',\\n 'dt',\\n 'em',\\n 'embed',\\n 'fieldset',\\n 'figcaption',\\n 'figure',\\n
'footer',\\n 'form',\\n 'h1',\\n 'h2',\\n 'h3',\\n 'h4',\\n 'h5',\\n 'h6',\\n 'head',\\n 'header',\\n 'hgroup',\\n 'hr',\\n 'html',\\n 'i',\\n
'iframe',\\n 'img',\\n 'input',\\n 'ins',\\n 'kbd',\\n 'keygen',\\n 'label',\\n 'legend',\\n
'li',\\n 'link',\\n 'main',\\n 'map',\\n 'mark',\\n 'marquee',\\n 'menu',\\n 'menuitem',\\n 'meta',\\n 'meter',\\n 'nav',\\n
'noscript',\\n 'object',\\n 'ol',\\n 'optgroup',\\n 'option',\\n 'output',\\n 'p',\\n 'param',\\n 'picture',\\n 'pre',\\n 'progress',\\n
'q',\\n 'rp',\\n 'rt',\\n 'ruby',\\n 's',\\n 'samp',\\n 'script',\\n 'section',\\n 'select',\\n 'small',\\n 'source',\\n 'span',\\n 'strong',\\n
'style',\\n 'sub',\\n 'summary',\\n 'sup',\\n 'table',\\n 'tbody',\\n 'td',\\n 'textarea',\\n 'tfoot',\\n 'th',\\n 'thead',\\n 'time',\\n
'title',\\n 'tr',\\n 'track',\\n 'u',\\n 'ul',\\n 'var',\\n 'video',\\n 'wbr',\\n\\n // SVG\\n 'circle',\\n 'clipPath',\\n 'defs',\\n
'ellipse',\\n 'foreignObject',\\n 'g',\\n 'image',\\n 'line',\\n 'linearGradient',\\n 'marker',\\n 'mask',\\n 'path',\\n 'pattern',\\n
'polygon',\\n 'polyline',\\n 'radialGradient',\\n 'rect',\\n 'stop',\\n 'svg',\\n 'text',\\n 'textPath',\\n 'tspan',\\n];\\n";\\n"//
@flow\\nimport constructWithOptions from './constructWithOptions';\\nimport
StyledComponent from './models/StyledComponent';\\nimport domElements from './utils/domElements';\\n\\nimport
type { Target } from './types';\\n\\nconst styled = (tag: Target) => constructWithOptions(StyledComponent,
tag);\\n\\n// Shorthands for all valid HTML Elements\\ndomElements.forEach(domElement => {\\n
styled[domElement] = styled(domElement);\\n});\\n\\nexport default styled;\\n";\\n"// @flow\\nimport {
isValidElementType } from 'react-is';\\nimport css from './css';\\nimport throwStyledError from './utils/error';\\nimport
{ EMPTY_OBJECT } from './utils/empties';\\nimport type { Target } from './types';\\n\\nexport default function
constructWithOptions(\\n  componentConstructor: Function,\\n  tag: Target,\\n  options: Object =
EMPTY_OBJECT\\n) {\\n  if (!isValidElementType(tag)) {\\n    return throwStyledError(1, String(tag));\\n  }\\n  /*
This is callable directly as a template function */\\n  // $FlowFixMe: Not typed to avoid destructuring arguments\\n
const templateFunction =
  (...args) => componentConstructor(tag, options, css(...args));\\n  /* If config methods are called, wrap up a new
template function and merge options */\\n  templateFunction.withConfig = config =>\\n
  constructWithOptions(componentConstructor, tag, { ...options, ...config });\\n  /* Modify/inject new props at
runtime */\\n  templateFunction.attrs = attrs =>\\n    constructWithOptions(componentConstructor, tag, {\\n
...options,\\n    attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),\\n  });\\n  \\n  return
templateFunction;\\n}\\n";\\n"// @flow\\nimport StyleSheet from './sheet';\\nimport type { RuleSet, Stringifier } from
'./types';\\nimport flatten from './utils/flatten';\\nimport isStaticRules from './utils/isStaticRules';\\n\\nexport default
class GlobalStyle {\\n  componentId: string;\\n  isStatic: boolean;\\n  rules: RuleSet;\\n  constructor(rules:
RuleSet, componentId: string) {\\n    this.rules = rules;\\n    this.componentId = componentId;\\n    this.isStatic =
isStaticRules(rules);\\n  }\\n  // pre-register the first instance to ensure global styles\\n  // load before component ones\\n
StyleSheet.registerId(this.componentId + 1);\\n  }\\n  createStyles(\\n    instance: number,\\n    executionContext:
Object,\\n    styleSheet: StyleSheet,\\n    stylis: Stringifier\\n  ) {\\n    const flatCSS = flatten(this.rules,
executionContext, styleSheet, stylis);\\n    const css = stylis(flatCSS.join(", "));\\n    const id = this.componentId +
instance;\\n    // NOTE: We use the id as a name as well, since these rules never change\\n
styleSheet.insertRules(id, id, css);\\n  }\\n  removeStyles(instance: number, styleSheet: StyleSheet) {\\n
styleSheet.clearRules(this.componentId + instance);\\n  }\\n  renderStyles(\\n    instance: number,\\n
executionContext: Object,\\n    styleSheet: StyleSheet,\\n    stylis: Stringifier\\n  ) {\\n    if (instance > 2)
StyleSheet.registerId(this.componentId + instance);\\n    // NOTE: Remove old styles, then inject the new ones\\n
this.removeStyles(instance, styleSheet);\\n    this.createStyles(instance, executionContext, styleSheet, stylis);\\n
  }\\n}\\n";\\n"// @flow\\nimport React, { useContext, useLayoutEffect, useRef } from 'react';\\nimport {
STATIC_EXECUTION_CONTEXT } from './constants';\\nimport GlobalStyle from

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../models/GlobalStyle';\nimport { useStyleSheet, useStylis } from '../models/StyleSheetManager';\nimport {
ThemeContext } from '../models/ThemeProvider';\nimport type { Interpolation } from './types';\nimport {
checkDynamicCreation } from '../utils/checkDynamicCreation';\nimport determineTheme from
../utils/determineTheme';\nimport generateComponentId from '../utils/generateComponentId';\nimport css from
../css';\n\ndeclare var __SERVER__: boolean;\n\ntype GlobalStyleComponentPropsType = Object;\n\nexport
default function createGlobalStyle(\n  strings: Array<string>,\n  ...interpolations: Array<Interpolation>)\n  {\n    const
rules = css(strings, ...interpolations);\n    const styledComponentId = `sc-global-
${generateComponentId(JSON.stringify(rules))}`;\n
    const globalStyle = new GlobalStyle(rules, styledComponentId);\n\n    if (process.env.NODE_ENV !==
'production') {\n      checkDynamicCreation(styledComponentId);\n    }\n\n    function GlobalStyleComponent(props:
GlobalStyleComponentPropsType) {\n      const styleSheet = useStyleSheet();\n      const stylis = useStylis();\n      const
theme = useContext(ThemeContext);\n      const instanceRef =
useRef(styleSheet.allocateGSInstance(styledComponentId));\n\n      const instance = instanceRef.current;\n\n      if
(process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {\n        // eslint-disable-next-
line no-console\n        console.warn(\n          `The global style component ${styledComponentId} was given child JSX.
createGlobalStyle does not render children.`\n        );\n      }\n\n      if (\n        process.env.NODE_ENV !== 'production'
&&\n        rules.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)\n      ) {\n
        // eslint-disable-next-line no-console\n        console.warn(\n          `Please do not use @import CSS syntax in
createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we
recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply
embedding it manually in your index.html <head> section for a simpler app.`\n        );\n      }\n\n      if
(styleSheet.server) {\n        renderStyles(instance, props, styleSheet, theme, stylis);\n      }\n\n      if (!__SERVER__) {\n
        // this conditional is fine because it is compiled away for the relevant builds during minification,\n        // resulting
in a single unguarded hook call\n        // eslint-disable-next-line react-hooks/rules-of-hooks\n        useLayoutEffect(()
=> {\n          if (!styleSheet.server) {\n            renderStyles(instance, props, styleSheet, theme, stylis);\n            return ()
=> globalStyle.removeStyles(instance, styleSheet);\n          }\n
        }, [instance, props, styleSheet, theme, stylis]);\n      }\n\n      return null;\n    }\n\n    function renderStyles(instance,
props, styleSheet, theme, stylis) {\n      if (globalStyle.isStatic) {\n        globalStyle.renderStyles(instance,
STATIC_EXECUTION_CONTEXT, styleSheet, stylis);\n      } else {\n        const context = {\n          ...props,\n
          theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),\n        };\n\n        globalStyle.renderStyles(instance, context, styleSheet, stylis);\n      }\n    }\n\n    // $FlowFixMe\n    return
React.memo(GlobalStyleComponent);\n  }\n\n  \"/>\n  @flow\n  \nimport css from '../css';\nimport generateComponentId
from '../utils/generateComponentId';\nimport Keyframes from '../models/Keyframes';\nimport type { Interpolation,
Styles } from './types';\n\nexport default function keyframes(\n  strings: Styles,\n  ...interpolations:
Array<Interpolation>): Keyframes {\n    /* Warning if you've used keyframes on React Native */\n    if (\n      process.env.NODE_ENV
!== 'production' &&\n      typeof navigator !== 'undefined' &&\n      navigator.product === 'ReactNative'\n    ) {\n      //
eslint-disable-next-line no-console\n      console.warn(\n        `keyframes` cannot be used on ReactNative, only on the
web. To do animation in ReactNative please use Animated.`\n      );\n    }\n\n    const rules = css(strings,
...interpolations).join("");\n    const name = generateComponentId(rules);\n    return new Keyframes(name,
rules);\n  }\n\n  \"/>\n  @flow\n  /* eslint-disable no-underscore-dangle */\nimport React from 'react';\nimport {
IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from '../constants';\nimport throwError from '../utils/error';\nimport getNonce from '../utils/nonce';\nimport StyleSheet from './sheet';\nimport
StyleSheetManager from './StyleSheetManager';\n\ndeclare var __SERVER__: boolean;\n\nconst
CLOSING_TAG_R = /^\\s*<\\[a-z]/i;\n\nexport default class ServerStyleSheet {\n  isStreaming: boolean;\n\n  instance: StyleSheet;\n\n  sealed: boolean;\n\n  constructor() {\n    this.instance = new StyleSheet({ isServer: true });\n    this.sealed = false;\n  }\n\n  _emitSheetCSS = (): string => {\n    const css = this.instance.toString();\n    if (!css) return "";\n    const nonce =

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getNonce();\n  const attrs = [nonce && `nonce=${nonce}`, `${SC_ATTR}=${true}`,\n
`${SC_ATTR_VERSION}=${SC_VERSION}`];\n  const htmlAttr = attrs.filter(Boolean).join(' '); \n\n  return\n
`<style ${htmlAttr}>${css}</style>`; \n ]; \n\n  collectStyles(children: any) {\n  if (this.sealed) {\n  return\n
throwStyledError(2);\n  } \n\n  return <StyleSheetManager\n
sheet={this.instance}>{children}</StyleSheetManager>; \n } \n\n  getStyleTags = (): string => {\n  if (this.sealed)\n
{\n  return throwStyledError(2);\n  } \n\n  return this._emitSheetCSS(); \n }; \n\n  getStyleElement = () => {\n
if (this.sealed) {\n  return throwStyledError(2);\n  } \n\n  const props = {\n  [SC_ATTR]: ", \n\n
[SC_ATTR_VERSION]: SC_VERSION, \n\n  dangerouslySetInnerHTML:\n
{\n  __html: this.instance.toString(), \n  }, \n  }; \n\n  const nonce = getNonce(); \n  if (nonce) {\n  (props:\n
any).nonce = nonce; \n  } \n\n  // v4 returned an array for this fn, so we'll do the same for v5 for backward compat\n
return [<style {...props} key="sc-0-0" />]; \n ]; \n\n  // eslint-disable-next-line consistent-return\n
interleaveWithNodeStream(input: any) {\n  if (!__SERVER__ || IS_BROWSER) {\n  return\n
throwStyledError(3); \n  } else if (this.sealed) {\n  return throwStyledError(2); \n  } \n\n  if (__SERVER__) {\n
this.seal(); \n\n  // eslint-disable-next-line global-require\n  const { Readable, Transform } =\n
require('stream'); \n\n  const readableStream: Readable = input; \n  const { instance: sheet, _emitSheetCSS } =\n
this; \n\n  const transformer = new Transform({\n  transform: function appendStyleChunks(chunk, /* encoding\n
*/ _, callback) {\n  // Get the chunk and retrieve the sheet's\n
CSS as an HTML chunk, \n  // then reset its rules so we get only new ones for the next chunk\n  const\n
renderedHtml = chunk.toString(); \n  const html = _emitSheetCSS(); \n\n  sheet.clearTag(); \n\n  //\n
prepend style html to chunk, unless the start of the chunk is a\n  // closing tag in which case append right after\n
that\n  if (CLOSING_TAG_R.test(renderedHtml)) {\n  const endOfClosingTag =\n
renderedHtml.indexOf('>') + 1; \n  const before = renderedHtml.slice(0, endOfClosingTag); \n  const\n
after = renderedHtml.slice(endOfClosingTag); \n\n  this.push(before + html + after); \n  } else {\n
this.push(html + renderedHtml); \n  } \n\n  callback(); \n  }, \n  }); \n\n  readableStream.on('error', err\n
=> {\n  // forward the error to the transform stream\n  transformer.emit('error', err); \n  }); \n\n  return\n
readableStream.pipe(transformer); \n\n  } \n\n  seal = () => {\n  this.sealed = true; \n  }; \n\n  } \n\n  // @flow\n
\nimport React, { useContext, type\n
AbstractComponent } from 'react'; \nimport hoistStatics from 'hoist-non-react-statics'; \nimport { ThemeContext } \n
from '../models/ThemeProvider'; \nimport determineTheme from '../utils/determineTheme'; \nimport\n
getComponentName from '../utils/getComponentName'; \n\n// NOTE: this would be the correct signature: \n// export\n
default <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):\n
AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n// \n\n// but the old build system\n
tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n //\n
$FlowFixMe This should be React.forwardRef<Config, Instance>\n  const WithTheme = React.forwardRef((props,\n
ref) => {\n  const theme = useContext(ThemeContext); \n  // $FlowFixMe defaultProps isn't declared so it can be\n
inferred\n  const { defaultProps\n
} = Component; \n  const themeProp = determineTheme(props, theme, defaultProps); \n\n  if\n
(process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n  // eslint-disable-next-line no-\n
console\n  console.warn(\n  `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a\n
theme in defaultProps in component class "${getComponentName(\n  Component\n  )}"\n  ); \n  } \n\n  return\n
<Component {...props} theme={themeProp} ref={ref} />; \n\n  hoistStatics(WithTheme,\n
Component); \n\n  WithTheme.displayName = `WithTheme(${getComponentName(Component)}); \n\n  return\n
WithTheme; \n }; \n\n  // @flow\n
\nimport { useContext } from 'react'; \nimport { ThemeContext } from\n
'../models/ThemeProvider'; \n\nconst useTheme = () => useContext(ThemeContext); \n\nexport default\n
useTheme; \n\n  // @flow\n
\n* eslint-disable *\n\nimport StyleSheet from './sheet'; \nimport { masterSheet } from\n
'../models/StyleSheetManager'; \n\nexport const __PRIVATE__ =\n
{\n  StyleSheet, \n  masterSheet, \n }; \n\n  // @flow\n
\n* Import singletons *\n\nimport isStyledComponent from\n
'../utils/isStyledComponent'; \nimport css from './constructors/css'; \nimport createGlobalStyle from

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./constructors/createGlobalStyle';\nimport keyframes from './constructors/keyframes';\nimport ServerStyleSheet
from './models/ServerStyleSheet';\nimport { SC_VERSION } from './constants';\n\nimport StyleSheetManager, {\n
StyleSheetContext,\n
StyleSheetConsumer,\n
} from './models/StyleSheetManager';\n\n/* Import components
*\nimport ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';\n\n/* Import
Higher Order Components *\nimport withTheme from './hoc/withTheme';\n\n/* Import hooks *\nimport useTheme
from './hooks/useTheme';\n\ndeclare var __SERVER__: boolean;\n\n/* Warning if you've imported this file on
React Native *\nif (\n
process.env.NODE_ENV !== 'production' &&\n
typeof navigator !== 'undefined' &&\n
navigator.product === 'ReactNative'\n) {\n
\n
// eslint-disable-next-line no-console\n
console.warn(\n
  \"It looks like you've imported 'styled-components' on
React Native.\n\n\" +\n
  \"Perhaps you're looking to import 'styled-components/native'?\\n\n\" +\n
  \"Read more
about this at https://www.styled-components.com/docs/basics#react-native\n
);\n\n\n/* Warning if there are
several instances of styled-components *\nif (process.env.NODE_ENV !== 'production' &&
process.env.NODE_ENV !== 'test' && typeof window !== 'undefined') {\n
window['__styled-components-init__']
= window['__styled-components-init__'] || 0;\n
if (window['__styled-components-init__'] === 1) {\n
// eslint-
disable-next-line no-console\n
console.warn(\n
  \"It looks like there are several instances of 'styled-components'
initialized in this application. \\n\" +\n
  \"This may cause dynamic styles to not render properly, errors during the
rehydration process, '\n\n\" +\n
  \"a missing theme prop, and makes your application bigger without good
reason.\n\n\n\" +\n
  \"See https://s.c.sh/2BAXzed for more info.\n
);\n\n\nwindow['__styled-components-
init__'] += 1;\n\n\n/* Export everything *\nexport * from './secretInternals';\nexport {\n
createGlobalStyle,\n
css,\n
isStyledComponent,\n
keyframes,\n
ServerStyleSheet,\n
StyleSheetConsumer,\n
StyleSheetContext,\n
StyleSheetManager,\n
ThemeProvider,\n
ThemeConsumer,\n
ThemeContext,\n
ThemeProvider,\n
useTheme,\n
SC_VERSION as
version,\n
withTheme,\n
};\n\n},\"names\":[\"strings\",\"interpolations\",\"result\",\"i\",\"len\",\"length\",\"push\",\"x\",\"toString\",\"Object\",\"pr
ototype\",\"call\",\"typeof\",\"EMPTY_ARRAY\",\"freeze\",\"EMPTY_OBJECT\",\"isFunction\",\"test\",\"getComponentNam
e\",\"target\",\"process\",\"env\",\"NODE_ENV\",\"displayName\",\"name\",\"isStyledComponent\",\"styledComponentId\",\"SC
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everseRegister\",\"nextFreeGroup\",\"getGroupForId\",\"id\",\"has\",\"get\",\"getIdForGroup\",\"setGroupForId\",\"SELECTOR
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bpack_nonce__\",\"makeStyleTag\",\"head\",\"document\",\"parent\",\"createElement\",\"prevStyle\",\"childNodes\",\"child\",\"n
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\"querySelectorAll\",\"getAttribute\",\"parentNode\",\"rehydrateSheet\",\"registerId\",\"reconstructWithOptions\",\"withNames
\",\"allocateGSInstance\",\"hasNameForId\",\"add\",\"groupNames\",\"Set\",\"clearNames\",\"clear\",\"clearRules\",\"clearTag\",
\"size\",\"selector\",\"outputSheet\",\"AD_REPLACER_R\",\"getAlphabeticChar\",\"String\",\"fromCharCode\",\"generateAlph
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ntId\",\"baseStyle\",\"staticRulesId\",\"isStatic\",\"baseHash\",\"generateAndInjectStyles\",\"executionContext\",\"styleSheet\",
\"stylis\",\"cssStatic\",\"flatten\",\"generateName\",\"cssStaticFormatted\",\"dynamicHash\",\"partRule\",\"partChunk\",\"partStri
ng\",\"Array\",\"isArray\",\"cssFormatted\",\"COMMENT_REGEX\",\"COMPLEX_SELECTOR_PREFIX\",\"createStylisIn
stance\",\"_componentId\",\"_selector\",\"_selectorRegex\",\"_consecutiveSelfRefRegex\",\"plugins\",\"Stylis\",\"parsingR
ules\",\"parseRulesPlugin\",\"toSheet\",\"block\",\"e\",\"context\",\"selectors\",\"parents\",\"line\",\"column\",\"ns\",\"depth\",
\"at\",\"de

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No license file was found, but licenses were detected in source scan.

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```

@flow\n/* eslint-disable no-bitwise *\n\nconst AD_REPLACER_R = /(a)(d)(g)(i); \n\n/* This is the "capacity" of
our alphabet i.e. 2x26 for all letters plus their capitalised\n * counterparts *\n\nconst charsLength = 52;\n\n/* start at
75 for 'a' until 'z' (25) and then start at 65 for capitalised letters *\n\nconst getAlphabeticChar = (code: number): string
=>\n String.fromCharCode(code + (code > 25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to
base-52 *\n\nexport default function generateAlphabeticName(code: number): string {\n let name = "";\n let x;\n\n /*
get a char and

```

```

divide by alphabet-length *\n for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n name =
getAlphabeticChar(x % charsLength) + name;\n }\n\n return (getAlphabeticChar(x % charsLength) +
name).replace(AD_REPLACER_R, '$1-$2');\n}\n\n", // @flow\n/* eslint-disable *\n\nexport const SEED =
5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that
we're still looping over\n// the same string\n\nexport const phash = (h: number, x: string): number => {\n let i =
x.length;\n\n while (i) {\n h = (h * 33) ^ x.charCodeAt(--i);\n }\n\n return h;\n};\n\n// This is a djb2 hashing
function\n\nexport const hash = (x: string): number => {\n return phash(SEED, x);\n};\n\n", // @flow\n/* eslint-disable
*\n\nimport generateAlphabeticName from './generateAlphabeticName';\nimport { hash } from './hash';\n\nexport
default (str: string): string => {\n return generateAlphabeticName(hash(str) >>> 0);\n};\n\n", // @flow\nimport
type { IStyledComponent } from './types';\n\nexport default function getComponentName(\n target:
$PropertyType<IStyledComponent, 'target'>): string {\n return (\n (process.env.NODE_ENV !== 'production' ?
typeof target === 'string' && target : false) ||\n // $FlowFixMe\n target.displayName ||\n // $FlowFixMe\n
target.name ||\n 'Component'\n );\n}\n\n", // @flow\nexport default function isFunction(test: any): boolean %checks
{\n return typeof test === 'function';\n}\n\n", // @flow\nexport default function isStatelessFunction(test: any):
boolean {\n return (\n typeof test === 'function'\n && !(\n test.prototype\n &&
test.prototype.isReactComponent\n )\n );\n}\n\n", // @flow\nimport { typeOf } from 'react-is';\n\nexport default (x:
any): boolean =>\n x !== null &&\n typeof x === 'object' &&\n (x.toString ? x.toString() :
Object.prototype.toString.call(x)) === '[object Object]' &&\n !typeof(x);\n\n", // @flow\nexport default function
isStyledComponent(target:

```

```

any): boolean %checks {\n return target && typeof target.styledComponentId === 'string';\n}\n\n", //
@flow\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\n\ndeclare var __VERSION__: string;\n\nexport const
SC_ATTR: string =\n (typeof process !== 'undefined' &&\n typeof process.env !== 'undefined' &&\n
(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const
SC_VERSION = __VERSION__;\n\nexport const SPLITTER = '/*!sc*\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n typeof
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=== 'false'\n\n ? false\n : process.env.REACT_APP_SC_DISABLE_SPEEDY\n : typeof
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process.env.SC_DISABLE_SPEEDY === 'false'\n\n ? false\n : process.env.SC_DISABLE_SPEEDY\n :
process.env.NODE_ENV !== 'production'\n : false\n);\n\n// Shared empty execution context when generating
static styles\n\nexport const STATIC_EXECUTION_CONTEXT = {};\n\n", // @flow\nexport const EMPTY_ARRAY =
Object.freeze([]);\n\nexport const EMPTY_OBJECT = Object.freeze({});\n\n", "export default {"1": "Cannot create

```

styled-component for component: %s.\n\n", "2": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n\n- Are you accidentally calling collectStyles twice?\n\n", "3": "Streaming SSR is only supported in a Node.js environment; Please do not try to call this method in the browser.\n\n", "4": "The `StyleSheetManager` expects a valid target or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n\n- Does this error occur on the server and is the sheet falsy?\n\n", "5": "The clone method cannot be used on the client!\n\n- Are you running in a client-like environment on the server?\n\n- Are you trying to run SSR on the client?\n\n", "6": "Trying to insert a new style tag, but the given Node is unmounted!\n\n- Are you using a custom target that isn't mounted?\n\n- Does your document not have a valid head element?\n\n- Have you accidentally removed a style tag manually?\n\n", "7": "ThemeProvider: Please return an object from your `theme` prop function, e.g.\n\n```\njs\ntheme={() => ({})}\n```\n\n", "8": "ThemeProvider: Please make your `theme` prop an object.\n\n", "9": "Missing document <head>\n\n", "10": "Cannot find a StyleSheet instance. Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases where this situation can happen: <https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021>\n\n", "11": "\_This error was replaced with a dev-time warning, it will be deleted for v4 final. \_ [createGlobalStyle] received children which will not be rendered. Please use the component without passing children elements.\n\n", "12": "It seems you are interpolating a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the `css`` helper which ensures the styles are injected correctly. See <https://www.styled-components.com/docs/api#css>\n\n", "13": "%s is not a styled component and cannot be referred to via component selector. See <https://www.styled-components.com/docs/advanced#referring-to-other-components> for more details.\n\n", "14": "ThemeProvider: `theme` prop is required.\n\n", "15": "A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g.\n\n```\njs\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });\n```\n\n", "16": "Reached the limit of how many styled components may be created at group %s.\n\nYou may only create up to 1,073,741,824 components. If you're creating components dynamically, `nas` for instance in your render method then you may be running into this limitation.\n\n", "17": "CSSStyleSheet could not be found on HTMLStyleElement.\n\nHas styled-components' style tag been unmounted or altered by another script?";\n\n// @flow\nimport errorMap from './errors';\nconst ERRORS = process.env.NODE\_ENV !== 'production' ? errorMap : {};\n\n/\*\*\n \* super basic version of sprintf\n \* ^\nfunction format(...args) {\n let a = args[0];\n const b = [];\n\n for (let c = 1, len = args.length; c < len; c += 1) {\n b.push(args[c]);\n }\n\n b.forEach(d => {\n a = a.replace(/%[a-z]/, d);\n });\n\n return a;\n}\n\n/\*\*\n \* Create an error file out of errors.md for development and a simple web link to the full errors\n \* in production mode.\n \* ^\nexport default function\nthrowStyledComponentsError(\n code: string | number,\n ...interpolations: Array<any>)\n{\n if (process.env.NODE\_ENV === 'production') {\n throw new Error(\n `An error occurred. See\n https://git.io/JUIaE#\${code} for more information.`,\n interpolations.length > 0 ? ` Args:\n \${interpolations.join(',')} : ` +\n interpolations.join(',') : ''\n );\n } else {\n throw new Error(\n format(ERRORS[code],\n ...interpolations).trim(),\n );\n }\n}\n\n/\*\*\n \* eslint-disable no-use-before-define\n \* ^\nimport type { GroupedTag, Tag } from './types';\nimport { SPLITTER } from './constants';\nimport throwError from './utils/error';\n\n/\*\* Create a GroupedTag with an underlying Tag implementation\n \* ^\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n return new DefaultGroupedTag(tag);\n};\n\nconst BASE\_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements GroupedTag {\n groupSizes: Uint32Array;\n\n length: number;\n\n tag: Tag;\n\n constructor(tag: Tag) {\n this.groupSizes = new Uint32Array(BASE\_SIZE);\n this.length = BASE\_SIZE;\n this.tag = tag;\n }\n}\n

```

indexOfGroup(group: number): number {\n  let index = 0;\n  for (let i = 0; i < group; i++) {\n    index +=
this.groupSizes[i];\n  }\n  return index;\n }\n\n insertRules(group: number, rules: string[]): void {\n  if (group
>= this.groupSizes.length) {\n    const oldBuffer = this.groupSizes;\n    const oldSize = oldBuffer.length;\n\n    let newSize = oldSize;\n    while (group >= newSize) {\n      newSize <<= 1;\n      if (newSize < 0) {\n
throwStyledError(16, `${group}`);\n      }\n    }\n    this.groupSizes = new Uint32Array(newSize);\n
this.groupSizes.set(oldBuffer);\n    this.length = newSize;\n\n    for (let i = oldSize; i < newSize; i++) {\n
this.groupSizes[i] = 0;\n    }\n  }\n\n  let ruleIndex = this.indexOfGroup(group + 1);\n  for (let i = 0, l =
rules.length; i < l; i++) {\n    if (this.tag.insertRule(ruleIndex, rules[i])) {\n      this.groupSizes[group]++;;\n
ruleIndex++;\n    }\n  }\n}\n\n clearGroup(group: number): void {\n  if (group < this.length) {\n    const
length = this.groupSizes[group];\n    const startIndex = this.indexOfGroup(group);\n    const endIndex =
startIndex + length;\n\n    this.groupSizes[group] = 0;\n\n    for (let i = startIndex; i < endIndex; i++) {\n
this.tag.deleteRule(startIndex);\n
  }\n}\n\n getGroup(group: number): string {\n  let css = "";\n  if (group >= this.length ||
this.groupSizes[group] === 0) {\n    return css;\n  }\n\n  const length = this.groupSizes[group];\n  const
startIndex = this.indexOfGroup(group);\n  const endIndex = startIndex + length;\n\n  for (let i = startIndex; i <
endIndex; i++) {\n    css += `${this.tag.getRule(i)}${SPLITTER}`;\n  }\n\n  return css;\n }\n}\n\n",//
@flow\n\nimport throwStyledError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister:
Map<string, number> = new Map();\n\nlet reverseRegister: Map<number, string> = new Map();\n\nlet nextFreeGroup =
1;\n\nexport const resetGroupIds = () => {\n  groupIDRegister = new Map();\n  reverseRegister = new Map();\n
nextFreeGroup = 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n  if (groupIDRegister.has(id))
{\n    return groupIDRegister.get(id);;\n  }\n\n  while (reverseRegister.has(nextFreeGroup)) {\n
nextFreeGroup++;\n  }\n\n  const group = nextFreeGroup++;\n\n  if (\n    process.env.NODE_ENV !== 'production'
&&\n    ((group | 0) < 0 || group > MAX_SMI)\n  ) {\n    throwStyledError(16, `${group}`);\n  }\n\n  groupIDRegister.set(id, group);\n  reverseRegister.set(group, id);\n  return group;\n};\n\nexport const
getIdForGroup = (group: number): void | string => {\n  return reverseRegister.get(group);;\n}\n\nexport const
setGroupForId = (id: string, group: number) => {\n  if (group >= nextFreeGroup) {\n    nextFreeGroup = group +
1;\n  }\n\n  groupIDRegister.set(id, group);\n  reverseRegister.set(group, id);;\n}\n\n",// @flow\n\nimport {
SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\n\nimport {
getIdForGroup, setGroupForId } from './GroupIDAllocator';\n\nimport type { Sheet } from './types';\n\nconst
SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}]="${SC_VERSION}"`;;\n\nconst MARKER_RE =
new RegExp(`^${SC_ATTR}\\\\.g(\\\\d+)\\\\[id="(\\\\\\\\w\\\\d-)+)"\\\\\\\\.*?`([^\"]*)`);\n\nexport
const outputSheet = (sheet: Sheet) => {\n  const tag = sheet.getTag();\n  const { length } = tag;\n  let css = "";\n
for (let group = 0; group < length; group++) {\n    const id = getIdForGroup(group);\n    if (id === undefined)
continue;\n\n    const names = sheet.names.get(id);\n    const rules = tag.getGroup(group);\n    if (!names || !rules ||
!names.size) continue;\n\n    const selector = `${SC_ATTR}.g${group}[id="${id}"]`;\n\n    let content = "";\n    if
(names !== undefined) {\n      names.forEach(name => {\n        if (name.length > 0) {\n          content +=
`${name},`;\n        }\n      });\n    }\n\n    // NOTE: It's easier to collect rules and have the marker\n    // after the
actual rules to simplify the rehydration\n    css += `${rules}${selector}{content:"${content}"}`;\n  }\n\n  return css;\n};\n\nconst rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n  const
names = content.split(',');\n
  let name;\n\n  for (let i = 0, l = names.length; i < l; i++) {\n    // eslint-disable-next-line\n    if ((name = names[i])
)\n    sheet.registerName(id, name);\n  }\n}\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:
HTMLStyleElement) => {\n  const parts = (style.textContent || "").split(SPLITTER);\n  const rules: string[] = [];\n
for (let i = 0, l = parts.length; i < l; i++) {\n    const part = parts[i].trim();\n    if (!part) continue;\n\n    const marker =
part.match(MARKER_RE);\n\n    if (marker) {\n      const group = parseInt(marker[1], 10) | 0;\n      const id =
marker[2];\n\n      if (group !== 0) {\n        // Rehydrate componentId to group index mapping\n
setGroupForId(id, group);\n        // Rehydrate names and rules\n        // looks like: data-
styled.g11[id="idA"]{content:"nameA,"}\n        rehydrateNamesFromContent(sheet, id, marker[3]);\n

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sheet.getTag().insertRules(group, rules);\n    }\n    rules.length = 0;\n  } else {\n
    rules.push(part);\n  }\n};\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n  const nodes =
document.querySelectorAll(SELECTOR);\n  for (let i = 0, l = nodes.length; i < l; i++) {\n    const node =
((nodes[i]: any): HTMLStyleElement);\n    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)
{\n      rehydrateSheetFromTag(sheet, node);\n      if (node.parentNode) {\n
node.parentNode.removeChild(node);\n      }\n    }\n  }\n};\n\n/** @flow\n/* eslint-disable camelcase, no-undef
*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n  return typeof __webpack_nonce__
!== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n\n/** @flow\n\nimport { SC_ATTR,
SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from
'./utils/nonce';\nimport throwStyledError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /*
Node.ELEMENT_TYPE *\n\n/** Find last style element if any inside target *\n\nconst
findLastStyleTag = (target: HTMLStyleElement): void | HTMLStyleElement => {\n  const { childNodes } = target;\n
for (let i = childNodes.length; i >= 0; i--) {\n    const child = ((childNodes[i]: any): ?HTMLStyleElement);\n
if (child && child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n      return ((child: any):
HTMLStyleElement);\n    }\n  }\n  return undefined;\n};\n\n/** Create a style element inside `target` or <head>
after the last *\n\nexport const makeStyleTag = (target?: HTMLStyleElement): HTMLStyleElement => {\n  const head =
((document.head: any): HTMLStyleElement);\n  const parent = target || head;\n  const style =
document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling = prevStyle
!== undefined ? prevStyle.nextSibling : null;\n  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n  const nonce = getNonce();\n  if (nonce)
style.setAttribute('nonce', nonce);\n  parent.insertBefore(style,
nextSibling);\n  return style;\n};\n\n/** Get the CSSStyleSheet instance for a given style element *\n\nexport const
getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return ((tag.sheet: any):
CSSStyleSheet);\n  }\n  // Avoid Firefox quirk where the style element might not have a sheet property\n  const {
styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n    const sheet = styleSheets[i];\n
if (sheet.ownerNode === tag) {\n      return ((sheet: any): CSSStyleSheet);\n    }\n  }\n  throwStyledError(17);\n
return (undefined: any);\n};\n\n/** @flow\n\n/* eslint-disable no-use-before-define *\n\nimport { makeStyleTag,
getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/** Create a CSSStyleSheet-like tag
depending on the environment *\n\nexport const makeTag = ({ isServer, useCSSOMInjection, target }:
SheetOptions): Tag => {\n  if (isServer) {\n    return new VirtualTag(target);\n  }
} else if (useCSSOMInjection) {\n    return new CSSOMTag(target);\n  } else {\n    return new TextTag(target);\n  }
}\n};\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n  sheet:
CSSStyleSheet;\n  length: number;\n\n  constructor(target?: HTMLStyleElement) {\n    const element = (this.element =
makeStyleTag(target));\n    // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode(''));\n    this.sheet = getSheet(element);\n    this.length = 0;\n  }
\n  insertRule(index: number, rule: string): boolean {\n    try {\n      this.sheet.insertRule(rule, index);\n
this.length++;\n      return true;\n    } catch (_error) {\n      return false;\n    }\n  }\n\n  deleteRule(index: number):
void {\n    this.sheet.deleteRule(index);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    const rule =
this.sheet.cssRules[index];\n    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n
if (rule !== undefined && typeof rule.cssText === 'string') {\n      return rule.cssText;\n    } else {\n      return '';\n    }
}\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes *\n\nexport class TextTag
implements Tag {\n  element: HTMLStyleElement;\n  nodes: NodeList<Node>;\n  length: number;\n\n  constructor(target?: HTMLStyleElement) {\n    const element = (this.element = makeStyleTag(target));\n
this.nodes = element.childNodes;\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <=
this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode =
this.nodes[index];\n      this.element.insertBefore(node, refNode || null);\n      this.length++;\n      return true;\n    }
else {\n      return false;\n    }\n  }\n\n  deleteRule(index: number): void {\n
this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n

```



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    if (index < this.length) {\n    return this.nodes[index].textContent;\n    } else {\n    return ";\n    }\n  }\n}\n\n/**
A completely virtual (server-side) Tag that doesn't manipulate the DOM */
export class VirtualTag implements
Tag {\n  rules: string[];\n  length: number;\n  constructor(_target?: HTMLInputElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length) {\n    this.rules.splice(index, 0, rule);\n    this.length++;\n    return true;\n    } else {\n    return false;\n    }\n  }\n  deleteRule(index: number): void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n  getRule(index: number):
string {\n    if (index < this.length) {\n    return this.rules[index];\n    } else {\n    return ";\n    }\n  }\n}\n\n"/
@flow\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport { EMPTY_OBJECT } from
 './utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport
 { getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet } from
 './Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from
 './types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\ntype SheetConstructorArgs = {\n  isServer?:
boolean,\n  useCSSOMInjection?: boolean,\n  target?: HTMLInputElement,\n};\n\ntype GlobalStylesAllocationMap = {
[key: string]: number };\n\ntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions:
SheetOptions = {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains
the main stylesheet logic for stringification and caching */
export default class StyleSheet implements Sheet {\n  gs: GlobalStylesAllocationMap;\n  names: NamesAllocationMap;\n  options: SheetOptions;\n  server:
boolean;\n  tag: void | GroupedTag;\n  /** Register a group ID to give it an index */\n  static registerId(id:
string): number {\n    return getGroupForId(id);\n  }\n  constructor(\n    options: SheetConstructorArgs = EMPTY_OBJECT,\n    globalStyles?:
GlobalStylesAllocationMap = {},\n    names?: NamesAllocationMap ) {\n    this.options = {\n
...defaultOptions,\n    ...options,\n  };\n    this.gs = globalStyles;\n    this.names = new Map(names);\n
    this.server = !options.isServer;\n    // We rehydrate only once and use the sheet that is created first\n
    if (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n    SHOULD_REHYDRATE = false;\n
    rehydrateSheet(this);\n    }\n  }\n  reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =
true) {\n    return new StyleSheet(\n      { ...this.options, ...options },\n      this.gs,\n      (withNames && this.names) ||
undefined\n    );\n  }\n  allocateGSInstance(id: string) {\n    return (this.gs[id] = (this.gs[id] || 0) + 1);\n  }\n  /**
Lazily initialises a GroupedTag for when it's actually needed */\n  getTag(): GroupedTag {\n    return
this.tag || (this.tag = makeGroupedTag(makeTag(this.options)));\n  }\n  /** Check whether a name is known for
caching */\n  hasNameForId(id: string, name: string): boolean {\n    return this.names.has(id) &&
(this.names.get(id): any).has(name);\n  }\n  /** Mark a group's name as known for caching */\n  registerName(id:
string, name: string) {\n    getGroupForId(id);\n    if (!this.names.has(id)) {\n    const groupNames = new Set();\n
    groupNames.add(name);\n    this.names.set(id, groupNames);\n    } else {\n    (this.names.get(id):
any).add(name);\n    }\n  }\n  /** Insert new rules which also marks the name as known */\n  insertRules(id: string,
name: string, rules: string[]) {\n    this.registerName(id, name);\n    this.getTag().insertRules(getGroupForId(id),
rules);\n  }\n  /** Clears all cached names for a given group ID */\n  clearNames(id: string) {\n    if
(this.names.has(id)) {\n    (this.names.get(id): any).clear();\n    }\n  }\n  /** Clears all rules for
a given group ID */\n  clearRules(id: string) {\n    this.getTag().clearGroup(getGroupForId(id));\n    this.clearNames(id);\n  }\n  /** Clears the entire tag which deletes all rules but not its names */\n  clearTag() {\n
// NOTE: This does not clear the names, since it's only used during SSR\n // so that we can continuously output
only new rules\n    this.tag = undefined;\n  }\n  /** Outputs the current sheet as a CSS string with markers for SSR
*/\n  toString(): string {\n    return outputSheet(this);\n  }\n}\n\n"/
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```
function(insertRule) {\n  const delimiter = '*/';\n  const needle = `${delimiter}`;\n  function toSheet(block) {\n    if (block) {\n      try {\n        insertRule(`${block}`);\n      } catch (e) {\n      }\n    }\n    return function ruleSheet(\n      context,\n      content,\n      selectors,\n      parents,\n      line,\n      column,\n      length,\n      ns,\n      depth,\n      at\n    ) {\n      switch (context) {\n        //\n        property\n        case 1:\n          // @import\n          if (depth === 0 && content.charCodeAt(0) === 64) return\n            insertRule(`${content};`), "\n          break;\n          // selector\n          case 2:\n            if (ns === 0) return content +\n              delimiter;\n            break;\n          // at-rule\n          case 3:\n            switch (ns) {\n              // @font-face, @page\n              case\n              102:\n                case 112:\n                  return insertRule(selectors[0] + content), "\n              default:\n                return content +\n                  (at === 0 ? delimiter : ");\n            }\n          case -2:\n            content.split(needle).forEach(toSheet);\n          }\n        }\n      }\n      "import Stylis from '@emotion/stylis';\n      import { type Stringifier } from './types';\n      import {\n        EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\n      import throwStyledError from './error';\n      import { phash,\n        SEED } from './hash';\n      import insertRulePlugin\n        from './stylisPluginInsertRule';\n      const COMMENT_REGEX = /^(\\/|\\/|\\/).*$/gm;\n      const COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];\n      type StylisInstanceConstructorArgs = {\n        options?:\n        Object,\n        plugins?: Array<Function>,\n      };\n      export default function createStylisInstance({\n        options =\n        EMPTY_OBJECT,\n        plugins = EMPTY_ARRAY,\n      }: StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n        const stylis = new Stylis(options);\n        // Wrap `insertRulePlugin` to build a list of rules, and then make our own\n        plugin to return the rules. This makes it easier to hook into the existing SSR architecture\n        let parsingRules =\n        [];\n        // eslint-disable-next-line consistent-return\n        const returnRulesPlugin = context => {\n          if (context === -2)\n            {\n              const parsedRules = parsingRules;\n              parsingRules = [];\n              return parsedRules;\n            }\n        }; \n        const\n        parseRulesPlugin = insertRulePlugin(rule => {\n          parsingRules.push(rule);\n        });\n        let _componentId: string;\n        let _selector:\n        string;\n        let _selectorRegex: RegExp;\n        let _consecutiveSelfRefRegex: RegExp;\n        const\n        selfReferenceReplacer = (match, offset, string) => {\n          if (\n            // do not replace the first occurrence if it is\n            complex (has a modifier)\n            (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])\n              === -1 : true) &&\n            // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n            !string.match(_consecutiveSelfRefRegex)\n          ) {\n            return `.${_componentId}`;\n          }\n          return match;\n        };\n        // **\n        * When writing a style like\n        * & + & {\n        *   color: red;\n        * }\n        * The second\n        ampersand should be a reference to the static component class. stylis\n        * has no knowledge of static class so we\n        have to intelligently replace the base selector.\n        * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <-\n        more info about the context phase values\n        * "2" means this plugin is taking effect\n        at the very end after all other processing is complete\n        *\n        const selfReferenceReplacementPlugin = (context, _,\n          selectors) => {\n          if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n            //\n            eslint-disable-next-line no-param-reassign\n            selectors[0] = selectors[0].replace(_selectorRegex,\n              selfReferenceReplacer);\n          }\n        }; \n        stylis.use([\n          ...plugins,\n          selfReferenceReplacementPlugin,\n          parseRulesPlugin,\n          returnRulesPlugin\n        ]);\n        function stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n          const\n          flatCSS = css.replace(COMMENT_REGEX, "");\n          const cssStr = selector && prefix ? `${prefix} ${selector} {\n            ${flatCSS} }\n          ` : flatCSS;\n          // stylis has no concept of state to be passed to plugins\n          // but since JS is single-\n          threaded, we can rely on that to ensure\n          // these properties stay in sync with the current stylis run\n          _componentId = componentId;\n          _selector = selector;\n          _selectorRegex = new RegExp(`\\\\\\\\\\\\${_selector}\\\\\\\\\\\\b`,\n            'g');\n          _consecutiveSelfRefRegex = new RegExp(`\\\\\\\\\\\\${_selector}\\\\\\\\\\\\b}{2,}`);\n          return stylis(prefix ||\n            !selector ? "\n          : selector, cssStr);\n        }\n        stringifyRules.hash = plugins.length\n          ? plugins\n            .reduce((acc,
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plugin) => {\n    if (!plugin.name) {\n        throwStyledError(15);\n    }\n\n    return phash(acc,\n    plugin.name);\n    }, SEED)\n    .toString()\n    :";\n\n    return stringifyRules;\n}\n\n", "// @flow\n\nimport React, {\n    type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\n\nimport shallowequal from 'shallowequal';\n\nimport StyleSheet from './sheet';\n\nimport type { Stringifier } from './types';\n\nimport createStylisInstance from './utils/stylis';\n\nexport type Props = {\n    children?: Node,\n    disableCSSOMInjection?:\n    boolean,\n    disableVendorPrefixes?: boolean,\n    sheet?: StyleSheet,\n    stylisPlugins?: Array<Function>,\n    target?:\n    HTMLElement,\n};\n\nexport const StyleSheetContext: Context<StyleSheet\n    | void> = React.createContext();\n\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\n\nexport const StylisContext: Context<Stringifier | void> = React.createContext();\n\nexport const StylisConsumer =\n    StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\n\nexport const masterStylis:\n    Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n    return\n    useContext(StyleSheetContext) || masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n    return\n    useContext(StylisContext) || masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n    const\n    [plugins, setPlugins] = useState(props.stylisPlugins);\n\n    const contextStyleSheet = useStyleSheet();\n\n    const\n    styleSheet = useMemo(() => {\n        let sheet = contextStyleSheet;\n\n        if (props.sheet) {\n            // eslint-disable-next-\n            line prefer-destructuring\n            sheet = props.sheet;\n        } else if (props.target) {\n            sheet =\n            sheet.reconstructWithOptions({\n                target: props.target }, false);\n        }\n\n        if (props.disableCSSOMInjection) {\n            sheet =\n            sheet.reconstructWithOptions({ useCSSOMInjection: false });\n        }\n\n        return sheet;\n    },\n    [props.disableCSSOMInjection, props.sheet, props.target]);\n\n    const stylis = useMemo(\n        () =>\n        createStylisInstance({\n            options: { prefix: !props.disableVendorPrefixes },\n            plugins,\n        }),\n        [props.disableVendorPrefixes, plugins]);\n\n    useEffect(() => {\n        if (!shallowequal(plugins,\n        props.stylisPlugins))\n        setPlugins(props.stylisPlugins);\n    }, [props.stylisPlugins]);\n\n    return (\n        <StyleSheetContext.Provider value={styleSheet}>\n        <StylisContext.Provider value={stylis}>\n        {\n            process.env.NODE_ENV !== 'production'\n            ? React.Children.only(props.children)\n            : props.children\n        }\n        </StylisContext.Provider>\n        </StyleSheetContext.Provider>\n    );\n}\n\n", "// @flow\n\nimport StyleSheet from\n    './sheet';\n\nimport { type\n    Stringifier } from './types';\n\nimport throwStyledError from './utils/error';\n\nimport { masterStylis } from\n    './StyleSheetManager';\n\nexport default class Keyframes {\n    id: string;\n\n    name: string;\n\n    rules: string;\n\n    constructor(name: string, rules: string) {\n        this.name = name;\n        this.id = `sc-keyframes-${name}`;\n        this.rules\n        = rules;\n    }\n\n    inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n        const\n        resolvedName = this.name + stylisInstance.hash;\n\n        if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n            styleSheet.insertRules(\n                this.id,\n                resolvedName,\n                stylisInstance(this.rules, resolvedName,\n                '@keyframes')\n            );\n        }\n\n        toString = () => {\n            return throwStyledError(12, String(this.name));\n        }\n\n        getName(stylisInstance: Stringifier = masterStylis) {\n            return this.name + stylisInstance.hash;\n        }\n    }\n}\n\n", "//\n    @flow\n\n/**\n    * inlined version of\n    *  

https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n    *\n    */\n\nconst uppercaseCheck = /([A-Z])/;\nconst uppercasePattern = /([A-Z])/g;\nconst msPattern = /^ms-;/\nconst\n    prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n/**\n    * Hyphenates a camelcased\n    * CSS property name, for example:\n    * > hyphenateStyleName('backgroundColor')\n    * < \"background-\n    * color\"\n    * > hyphenateStyleName('MozTransition')\n    * < \"-moz-transition\"\n    * >\n    * hyphenateStyleName('msTransition')\n    * < \"-ms-transition\"\n    * >\n    * As Modernizr suggests\n    * (http://modernizr.com/docs/#prefixed), an `ms` prefix\n    * is converted to `ms-`.\n    * @param {string} string\n    * @return {string}\n    */\n\nexport default function hyphenateStyleName(string: string): string {\n    return\n    uppercaseCheck.test(string)\n    ? string\n    .replace(uppercasePattern, prefixAndLowerCase)\n    .replace(msPattern,\n    '-ms-')\n    : string;\n}\n\n", "// @flow\n\nimport unitless from '@emotion/unitless';\n\n// Taken from\n    https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-\n    dom/src/shared/dangerousStyleValue.js\n\nexport default function addUnitIfNeeded(name: string, value: any): any {\n

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FEED || (code === CR && css.charCodeAtAt(pos + 1) !== NEWLINE)) {\n  offset = pos;\n  line += 1;\n  }\n\n  switch (code) {\n    case NEWLINE:\n    case SPACE:\n    case TAB:\n    case CR:\n    case FEED:\n      next = pos;\n      do {\n        next += 1;\n        code = css.charCodeAtAt(next);\n        if (code === NEWLINE) {\n          offset = next;\n          line += 1;\n        }\n      } while (\n        code === SPACE ||\n        code === NEWLINE ||\n        code === TAB ||\n        code === CR ||\n        code === FEED\n      );\n\n    tokens.push(['space', css.slice(pos, next)]);\n    pos = next - 1;\n    break;\n\n    case OPEN_SQUARE:\n      tokens.push(['[', ']', line, pos - offset]);\n      break;\n\n    case CLOSE_SQUARE:\n      tokens.push([']', ']', line, pos - offset]);\n      break;\n\n    case OPEN_CURLY:\n      tokens.push(['{', '}', line, pos - offset]);\n      break;\n\n    case CLOSE_CURLY:\n      tokens.push(['}', '}', line, pos - offset]);\n      break;\n\n    case COLON:\n      tokens.push([':', ':', line, pos - offset]);\n      break;\n\n    case SEMICOLON:\n      tokens.push([';', ';', line, pos - offset]);\n      break;\n\n    case OPEN_PARENTHESSES:\n      prev = tokens.length ? tokens[tokens.length - 1][1] : ";\n      n = css.charCodeAtAt(pos + 1);\n      if (\n        prev === 'url' &&\n        n !== SINGLE_QUOTE &&\n        n !== DOUBLE_QUOTE &&\n        n !== SPACE &&\n        n !== NEWLINE &&\n        n !== TAB &&\n        n !== FEED &&\n        n !== CR\n      ) {\n        next = pos;\n        do {\n          escaped = false;\n          next = css.indexOf(')', next + 1);\n          if (next === -1) {\n            if (ignore) {\n              next = pos;\n              break;\n            } else {\n              unclosed('bracket');\n            }\n            escapePos = next;\n            while (css.charCodeAtAt(escapePos - 1) === BACKSLASH) {\n              escapePos -= 1;\n              escaped = !escaped;\n            }\n            } while (escaped);\n            tokens.push([\n              'brackets',\n              css.slice(pos, next + 1),\n              line,\n              pos - offset,\n              line,\n              next - offset,\n            ]);\n            pos = next;\n          } else {\n            next = css.indexOf(')', pos + 1);\n            content = css.slice(pos, next + 1);\n            if (next === -1 || RE_BAD_BRACKET.test(content)) {\n              tokens.push(['(', '(', line, pos - offset]);\n            } else {\n              tokens.push(['brackets', content, line, pos - offset, line, next - offset]);\n            }\n            pos = next;\n          }\n        }\n      }\n\n    case CLOSE_PARENTHESSES:\n      tokens.push([')', ')', line, pos - offset]);\n      break;\n\n    case SINGLE_QUOTE:\n    case DOUBLE_QUOTE:\n      quote = code === SINGLE_QUOTE ? '\"' : \"'\";\n      next = pos;\n      do {\n        escaped = false;\n        next = css.indexOf(quote, next + 1);\n        if (next === -1) {\n          if (ignore) {\n            next = pos + 1;\n            break;\n          } else {\n            unclosed('quote');\n          }\n          escapePos = next;\n          while (css.charCodeAtAt(escapePos - 1) === BACKSLASH) {\n            escapePos -= 1;\n            escaped = !escaped;\n          }\n          } while (escaped);\n          content = css.slice(pos, next + 1);\n          lines = content.split("\\n");\n          last = lines.length - 1;\n          if (last > 0) {\n            nextLine = line + last;\n            nextOffset = next - lines[last].length;\n          } else {\n            nextLine = line;\n            nextOffset = offset;\n          }\n          tokens.push([\n            'string',\n            css.slice(pos, next + 1),\n            line,\n            pos - offset,\n            nextLine,\n            next - nextOffset,\n          ]);\n          offset = nextOffset;\n          line = nextLine;\n          pos = next;\n          break;\n\n        case AT:\n          RE_AT_END.lastIndex = pos + 1;\n          RE_AT_END.test(css);\n          if (RE_AT_END.lastIndex === 0) {\n            next = css.length - 1;\n          } else {\n            next = RE_AT_END.lastIndex - 2;\n          }\n          tokens.push(['at-word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n          pos = next;\n          break;\n\n        case BACKSLASH:\n          next = pos;\n          escape = true;\n          while (css.charCodeAtAt(next + 1) === BACKSLASH) {\n            next += 1;\n            escape = !escape;\n          }\n          code = css.charCodeAtAt(next + 1);\n          if (\n            escape &&\n            (code !== SLASH &&\n              code !== SPACE &&\n              code !== NEWLINE &&\n              code !== TAB &&\n              code !== CR &&\n              code !== FEED)\n          ) {\n            next += 1;\n          }\n          tokens.push(['word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n          pos = next;\n          break;\n\n        default:\n          if (code === SLASH && css.charCodeAtAt(pos + 1) === ASTERISK) {\n            next = css.indexOf('*', pos + 2) + 1;\n            if (next === 0) {\n              if (ignore) {\n                next = css.length;\n              }\n            } else {\n              unclosed('comment');\n            }\n          }\n          content = css.slice(pos, next + 1);\n          lines = content.split("\\n");\n          last = lines.length - 1;\n          if (last > 0) {\n            nextLine = line + last;\n          }

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        nextOffset = next - lines[last].length;\n        } else {\n            nextLine = line;\n            nextOffset = offset;\n        }\n        tokens.push(['comment', content, line, pos - offset, nextLine, next - nextOffset]);\n        offset = nextOffset;\n        line = nextLine;\n        pos = next;\n        } else {\n            RE_WORD_END.lastIndex = pos + 1;\n            RE_WORD_END.test(css);\n            if (RE_WORD_END.lastIndex === 0) {\n                next = css.length - 1;\n            } else {\n                next = RE_WORD_END.lastIndex - 2;\n            }\n            tokens.push(['word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n            pos = next;\n        }\n        break;\n    }\n    pos++;\n}\nreturn tokens;\n"}\n"/\n @flow\nimport tokenize from './tokenize';\nimport Input from './input';\n\nconst HIGHLIGHT_THEME = {\n  brackets: [36, 39], // cyan\n  string: [31, 39], // red\n  'at-word': [31, 39], // red\n  comment: [90, 39], // gray\n  '{': [32, 39], // green\n  '}': [32, 39], // green\n  ':': [1, 22], // bold\n  ';': [1, 22], // bold\n  '(': [1, 22], // bold\n  ')': [1, 22], // bold\n};\n\nfunction code(color) {\n  return `\\u001b[${color}m`;\n}\n\nfunction terminalHighlight(css) {\n  const tokens = tokenize(new Input(css), { ignoreErrors: true });\n  const result = [];\n  tokens.forEach(token => {\n    const color = HIGHLIGHT_THEME[token[0]];\n    if (color) {\n      result.push(\n        token[1]\n          .split(/\\r?\\n/)\n          .map(i => code(color[0]) + i + code(color[1]))\n          .join("\\n")\n      );\n    } else {\n      result.push(token[1]);\n    }\n  });\n  return result.join("");\n}\n\nexport default terminalHighlight;\n"/\n\n @flow\nimport supportsColor from 'supports-color';\nimport terminalHighlight from './terminal-highlight';\nimport warnOnce from './warn-once';\n\n/**\n * The CSS parser throws this error for broken CSS.\n *\n * Custom parsers can throw this error\n *\n * for broken custom syntax using\n * the {@link Node#error} method.\n *\n * PostCSS will use the input source map to detect the original error location.\n *\n * If you wrote a Sass file, compiled it to CSS and then parsed it with PostCSS,\n * PostCSS will show the original position in the Sass file.\n *\n * If you need the position in the PostCSS input\n * (e.g., to debug the previous compiler), use `error.input.file`.\n *\n * @example\n * // Catching and checking syntax error\n * try {\n *   postcss.parse('a{')\n * } catch (error) {\n *   if (error.name === 'CssSyntaxError') {\n *     error // => CssSyntaxError\n *   }\n * }\n *\n * @example\n * // Raising error from plugin\n * throw node.error('Unknown variable', { plugin: 'postcss-vars' });\n *\n * class CssSyntaxError {\n * /**\n * @param {string} message - error message\n * @param {number} [line] - source line of the error\n * @param {number} [column] - source column of the error\n * @param {string} [source] - source code of the broken file\n * @param {string} [file] - absolute path to the broken file\n * @param {string} [plugin] - PostCSS plugin name, if error came from plugin\n * constructor(message, line, column, source, file, plugin) {\n * /**\n * @member {string} - Always equal to `CssSyntaxError`. You should\n * always check error type\n * by `error.name === 'CssSyntaxError'` instead of\n * `error instanceof CssSyntaxError`, because\n * npm could have several PostCSS versions.\n *\n * @example\n *\n * if (error.name === 'CssSyntaxError') {\n *   error // => CssSyntaxError\n * }\n *\n * this.name = 'CssSyntaxError';\n * /**\n * @member {string} - Error message.\n *\n * @example\n * error.message // => 'Unclosed block'\n *\n * this.reason = message;\n *\n * if (file) {\n * /**\n * @member {string} - Absolute path to the broken file.\n *\n * @example\n * error.file // => 'a.sass'\n * error.input.file // => 'a.css'\n *\n * this.file = file;\n * }\n *\n * if (source) {\n * /**\n * @member {string} - Source code of the broken file.\n *\n * @example\n * error.source // => 'a { b { } }'\n * error.input.column // => 'a b { }'\n *\n * this.source = source;\n * }\n *\n * if (plugin) {\n * /**\n * @member {string} - Plugin name, if error came from plugin.\n *\n * @example\n * error.plugin // => 'postcss-vars'\n *\n * this.plugin = plugin;\n * }\n *\n * if (typeof line !== 'undefined' && typeof column !== 'undefined') {\n * /**\n * @member {number} - Source line of the error.\n *\n * @example\n * error.line // => 2\n * error.input.line // => 4\n *\n * this.line = line;\n * }\n *\n * @member {number} - Source column of the error.\n *\n * @example\n * error.column // => 1\n * error.input.column // => 4\n *\n * this.column = column;\n * }\n *\n * this.setMessage();\n *\n * if (Error.captureStackTrace) {\n *   Error.captureStackTrace(this, CssSyntaxError);\n * }\n *\n * }\n *\n * setMessage() {\n * /**\n * @member {string} - Full error text in the GNU error format\n *\n * with plugin, file, line and column.\n *\n * @example\n * error.message // => 'a.css:1:1: Unclosed block'\n */

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*\n this.message = this.plugin ? `${this.plugin}: `:`;\n this.message += this.file ? this.file : '<css input>';\n if
(typeof this.line !== 'undefined') {\n this.message += `:${this.line}:${this.column}`;\n }\n this.message += `:
${this.reason}`;\n }\n\n /**\n * Returns a few lines of CSS source that caused the error.\n *\n * If the CSS has
an input source map without `sourceContent`,\n * this method will return an empty string.\n *\n * @param
{boolean} [color] whether arrow
will be colored red by terminal\n * color codes. By default, PostCSS will detect\n *
color support by `process.stdout.isTTY`\n * and `process.env.NODE_DISABLE_COLORS`.\n
*\n * @example\n * error.showSourceCode() //=> `\" 4 | }\n * // 5 | a {\n * //
> 6 | bad\n * // | ^\n * // 7 | }\n * // 8 | b {\n * @return {string} few lines of CSS source that caused the error\n
*\n showSourceCode(color) {\n if
(!this.source) return \";\n\n let css = this.source;\n if (typeof color === 'undefined') color = supportsColor;\n if
(color) css = terminalHighlight(css);\n\n const lines = css.split(/\\r?\\n/);\n const start = Math.max(this.line - 3,
0);\n const end = Math.min(this.line + 2, lines.length);\n\n const maxWidth = String(end).length;\n\n
return lines\n .slice(start, end)\n .map((line, index) => {\n const number = start + 1 + index;\n const
padded = `${number}`.slice(-maxWidth);\n const gutter = `${padded} | `;\n if (number === this.line) {\n
const spacing =\n gutter.replace(/\\d/g, ' ') + line.slice(0, this.column - 1).replace(/[^\\t]/g, ' ');\n
return `>${gutter}${line}\\n ${spacing}^`;\n } else {\n return `${gutter}${line}`;\n }\n })\n
.join("\\n");\n }\n\n /**\n * Returns error position, message and source code of the broken part.\n *\n
@example\n * error.toString() //=> `\"CssSyntaxError: app.css:1:1: Unclosed block\n * // > 1 | a {\n
* // | ^\n * @return {string} error position, message and source code\n *\n toString() {\n
let code = this.showSourceCode();\n if (code) {\n code = `\\n\\n${code}\\n`;\n }\n
return `${this.name}: ${this.message}${code}`;\n }\n\n get generated() {\n
warnOnce('CssSyntaxError#generated is deprecated. Use input instead.');

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    this.builder(`${start + between}`, node, 'start');\n\n    let after;\n    if (node.nodes && node.nodes.length) {\n    this.body(node);\n    after = this.raw(node, 'after');\n    } else {\n    after = this.raw(node, 'after', 'emptyBody');\n    }\n\n    if (after) this.builder(after);\n    this.builder('}', node, 'end');\n    }\n\n    raw(node, own, detect) {\n    let value;\n    if (!detect) detect = own;\n\n    // Already had\n    if (own) {\n    value = node.rows[own];\n    if (typeof value\n    !== 'undefined') return value;\n    }\n\n    const parent = node.parent;\n\n    // Hack for first rule in CSS\n    if (detect\n    === 'before') {\n    if (!parent || (parent.type === 'root' && parent.first === node)) {\n    return ";\n    }\n    }\n\n    // Floating child without parent\n    if (!parent) return defaultRaw[detect];\n\n    // Detect style by other nodes\n    const root = node.root();\n    if (!root.rawCache) root.rawCache = {};\n    if (typeof root.rawCache[detect]\n    !== 'undefined') {\n    return root.rawCache[detect];\n    }\n\n    if (detect === 'before' || detect === 'after') {\n    return this.beforeAfter(node, detect);\n    } else {\n    const method = `raw${capitalize(detect)}`;\n    if\n    (this[method]) {\n    value = this[method](root, node);\n    } else {\n    root.walk(i => {\n    value =\n    i.rows[own];\n    if (typeof value !== 'undefined') return false;\n    });\n    }\n\n    if (typeof value ===\n    'undefined') value = defaultRaw[detect];\n\n    root.rawCache[detect] = value;\n    return value;\n    }\n\n    rawSemicolon(root) {\n    let value;\n    root.walk(i => {\n    if (i.nodes && i.nodes.length && i.last.type ===\n    'decl') {\n    value = i.rows.semicolon;\n    if (typeof value !== 'undefined') return false;\n    }\n    });\n    return\n    value;\n    }\n\n    rawEmptyBody(root) {\n    let value;\n    root.walk(i => {\n    if (i.nodes && i.nodes.length === 0)\n    {\n    value = i.rows.after;\n\n    if (typeof value !== 'undefined') return false;\n    }\n    });\n    return value;\n    }\n\n    rawIndent(root) {\n    if\n    (root.rows.indent) return root.rows.indent;\n    let value;\n    root.walk(i => {\n    const p = i.parent;\n    if (p && p\n    !== root && p.parent && p.parent === root) {\n    if (typeof i.rows.before !== 'undefined') {\n    const parts =\n    i.rows.before.split("\\n");\n    value = parts[parts.length - 1];\n    value = value.replace(/^[\\s]/g, "");\n    return false;\n    }\n    }\n    });\n    return value;\n    }\n\n    rawBeforeComment(root, node) {\n    let value;\n    root.walkComments(i => {\n    if (typeof i.rows.before !== 'undefined') {\n    value = i.rows.before;\n    if\n    (value.indexOf("\\n") !== -1) {\n    value = value.replace(/^[\\n]+$/, "");\n    }\n    return false;\n    }\n    });\n    if (typeof value === 'undefined') {\n    value = this.raw(node, null, 'beforeDecl');\n    }\n    return value;\n    }\n\n    rawBeforeDecl(root, node) {\n    let value;\n    root.walkDecls(i => {\n    if (typeof\n    i.rows.before !== 'undefined') {\n    value = i.rows.before;\n    if (value.indexOf("\\n") !== -1) {\n    value =\n    value.replace(/^[\\n]+$/, "");\n    }\n    return false;\n    }\n    });\n    if (typeof value === 'undefined') {\n    value = this.raw(node, null, 'beforeRule');\n    }\n    return value;\n    }\n\n    rawBeforeRule(root) {\n    let value;\n    root.walk(i => {\n    if (i.nodes && (i.parent !== root || root.first !== i)) {\n    if (typeof i.rows.before !==\n    'undefined') {\n    value = i.rows.before;\n    if (value.indexOf("\\n") !== -1) {\n    value =\n    value.replace(/^[\\n]+$/, "");\n    }\n    return false;\n    }\n    }\n    });\n    return value;\n    }\n\n    rawBeforeClose(root) {\n    let value;\n    root.walk(i => {\n    if (i.nodes && i.nodes.length > 0) {\n    if (typeof\n    i.rows.after !==\n    'undefined') {\n    value = i.rows.after;\n    if (value.indexOf("\\n") !== -1) {\n    value =\n    value.replace(/^[\\n]+$/, "");\n    }\n    return false;\n    }\n    }\n    });\n    return value;\n    }\n\n    rawBeforeOpen(root) {\n    let value;\n    root.walk(i => {\n    if (i.type !== 'decl') {\n    value =\n    i.rows.between;\n    if (typeof value !== 'undefined') return false;\n    }\n    });\n    return value;\n    }\n\n    rawColon(root) {\n    let value;\n    root.walkDecls(i => {\n    if (typeof i.rows.between !== 'undefined') {\n    value = i.rows.between.replace(/^[\\s:]/g, "");\n    return false;\n    }\n    });\n    return value;\n    }\n\n    beforeAfter(node, detect) {\n    let value;\n    if (node.type === 'decl') {\n    value = this.raw(node, null,\n    'beforeDecl');\n    } else if (node.type === 'comment') {\n    value = this.raw(node, null, 'beforeComment');\n    }\n    else if (detect === 'before') {\n    value = this.raw(node,\n    null, 'beforeRule');\n    } else {\n    value = this.raw(node, null, 'beforeClose');\n    }\n\n    let buf = node.parent;\n    let depth = 0;\n    while (buf && buf.type !== 'root') {\n    depth += 1;\n    buf = buf.parent;\n    }\n\n    if\n    (value.indexOf("\\n") !== -1) {\n    const indent = this.raw(node, null, 'indent');\n    if (indent.length) {\n    for\n    (let step = 0; step < depth; step++) value += indent;\n    }\n    }\n\n    return value;\n    }\n\n    rawValue(node, prop)\n    {\n    const value = node[prop];\n    const raw = node.rows[prop];\n    if (raw && raw.value === value) {\n    return

```



```

raw.raw;\n } else {\n return value;\n }\n }\n\n\nexport default Stringifier;\n", "// @flow\nimport Stringifier
from './stringifier';\n\nexport default function stringify(node, builder) {\n const str = new Stringifier(builder);\n str.stringify(node);\n}\n", "// @flow\nimport CssSyntaxError from './css-syntax-error';\nimport Stringifier from
 './stringifier';\nimport
stringify from './stringify';\nimport warnOnce from './warn-once';\n\n/**\n * @typedef {object} position\n *
@property {number} line - source line in file\n * @property {number} column - source column in file\n
*\n\n/**\n * @typedef {object} source\n * @property {Input} input - {@link Input} with input file\n *
@property {position} start - The starting position of the node's source\n * @property {position} end - The ending
position of the node's source\n *\n\nconst cloneNode = function(obj, parent) {\n const cloned = new
obj.constructor();\n\n for (const i in obj) {\n if (!obj.hasOwnProperty(i)) continue;\n let value = obj[i];\n const
type = typeof value;\n\n if (i === 'parent' && type === 'object') {\n if (parent) cloned[i] = parent;\n } else if (i
=== 'source') {\n cloned[i] = value;\n } else if (value instanceof Array) {\n cloned[i] = value.map(j =>
cloneNode(j, cloned));\n } else if (i !== 'before' && i !== 'after' && i !== 'between'
&& i !== 'semicolon') {\n if (type === 'object' && value !== null) value = cloneNode(value);\n cloned[i] =
value;\n }\n }\n\n return cloned;\n};\n\n/**\n * All node classes inherit the following common methods.\n *\n *
@abstract\n *\n\nclass Node {\n /**\n * @param {object} [defaults] - value for node properties\n *\n
constructor(defaults = {}) {\n this.raws = {};\n for (const name in defaults) {\n this[name] =
defaults[name];\n }\n }\n\n /**\n * Returns a CssSyntaxError instance containing the original position\n * of
the node in the source, showing line and column numbers and also\n * a small excerpt to facilitate debugging.\n
*\n * If present, an input source map will be used to get the original position\n * of the source, even from a
previous compilation step\n * (e.g., from Sass compilation).\n *\n * This method produces very useful error
messages.\n *\n * @param {string} message - error description\n * @param {object}
[opts] - options\n * @param {string} opts.plugin - plugin name that created this error.\n *
PostCSS will set it automatically.\n * @param {string} opts.word - a word inside a node's string that should\n *
be highlighted as the source of the error\n * @param {number} opts.index - an index inside a
node's string that should\n * be highlighted as the source of the error\n *\n * @return
{CssSyntaxError} error object to throw it\n *\n * @example\n * if ( !variables[name] ) {\n * throw
decl.error('Unknown variable ' + name, { word: name });\n * // CssSyntaxError: postcss-vars:a.sass:4:3: Unknown
variable $black\n * // color: $black\n * // a\n * // ^\n * // background: white\n * }\n *\n
error(message, opts = {}) {\n if (this.source) {\n const pos = this.positionBy(opts);\n return
this.source.input.error(message, pos.line,
pos.column, opts);\n } else {\n return new CssSyntaxError(message);\n }\n }\n\n /**\n * This method is
provided as a convenience wrapper for {@link Result#warn}.\n *\n * @param {Result} result - the {@link
Result} instance\n * that will receive the warning\n * @param {string} text - warning
message\n * @param {object} [opts] - options\n * @param {string} opts.plugin - plugin name that created this
warning.\n * PostCSS will set it automatically.\n * @param {string} opts.word - a word
inside a node's string that should\n * be highlighted as the source of the warning\n * @param
{number} opts.index - an index inside a node's string that should\n * be highlighted as the
source of the warning\n *\n * @return {Warning} created warning object\n *\n * @example\n * const plugin
= postcss.plugin('postcss-deprecated',
() => {\n * return (root, result) => {\n * root.walkDecls('bad', decl => {\n * decl.warn(result, 'Deprecated
property bad');\n * });\n * });\n *\n * warn(result, text, opts) {\n const data = { node: this };
for
(const i in opts) data[i] = opts[i];\n return result.warn(text, data);\n }\n\n /**\n * Removes the node from its
parent and cleans the parent properties\n * from the node and its children.\n *\n * @example\n * if (
decl.prop.match(/^~webkit-/)) {\n * decl.remove();\n * }\n *\n * @return {Node} node to make calls chain\n
*\n * remove() {\n if (this.parent) {\n this.parent.removeChild(this);\n }\n this.parent = undefined;\n return
this;\n }\n\n /**\n * Returns a CSS string representing the node.\n *\n * @param {stringifier|syntax}
[stringifier] - a syntax to use\n * in string generation\n *\n * @return {string} CSS

```

string

```
of this node\n * \n * @example\n * postcss.rule({ selector: 'a' }).toString() //=> \"a { }\"\n *\n toString(stringifier = stringify) {\n   if (stringifier.stringify) stringifier = stringifier.stringify;\n   let result = \";\n   stringifier(this, i => {\n     result += i;\n   });\n   return result;\n }\n /**\n  * Returns a clone of the node.\n  *\n  * The resulting cloned node and its (cloned) children will have\n  * a clean parent and code style properties.\n  *\n  * @param {object} [overrides] - new properties to override in the clone.\n  * \n  * @example\n  * const cloned =\n  decl.clone({ prop: '-moz-' + decl.prop });\n  * cloned.raws.before //=> undefined\n  * cloned.parent //=>\n  undefined\n  * cloned.toString() //=> -moz-transform: scale(0)\n  * \n  * @return {Node} clone of the node\n  *\n  clone(overrides = {}) {\n    const cloned = cloneNode(this);\n    for (const name in overrides) {\n      cloned[name] = overrides[name];\n    }\n    return\n    cloned;\n  }\n /**\n  * Shortcut to clone the node and insert the resulting cloned node\n  * before the current\n  node.\n  *\n  * @param {object} [overrides] - new properties to override in the clone.\n  * \n  * @example\n  * decl.cloneBefore({ prop: '-moz-' + decl.prop });\n  * \n  * @return {Node} - new node\n  *\n  cloneBefore(overrides = {}) {\n    const cloned = this.clone(overrides);\n    this.parent.insertBefore(this, cloned);\n    return cloned;\n  }\n /**\n  * Shortcut to clone the node and insert the resulting cloned node\n  * after the current\n  node.\n  *\n  * @param {object} [overrides] - new properties to override in the clone.\n  * \n  * @return {Node} -\n  new node\n  *\n  cloneAfter(overrides = {}) {\n    const cloned = this.clone(overrides);\n    this.parent.insertAfter(this, cloned);\n    return cloned;\n  }\n /**\n  * Inserts node(s) before the current node and\n  removes the current node.\n  *\n  * @param {...Node} nodes - node(s) to replace current\n  one\n  *\n  * @example\n  * if ( atrule.name === 'mixin' ) {\n  *\n  atrule.replaceWith(mixinRules[atrule.params]);\n  * }\n  *\n  * @return {Node} current node to methods chain\n  *\n  replaceWith(...nodes) {\n    if (this.parent) {\n      nodes.forEach(node => {\n        this.parent.insertBefore(this,\n        node);\n      });\n      this.remove();\n    }\n    return this;\n  }\n /**\n  * Removes the node from its current\n  parent and inserts it\n  * at the end of `newParent`.\n  *\n  * This will clean the `before` and `after` code {@link\n  Node#raws} data\n  * from the node and replace them with the indentation style of `newParent`.\n  * It will also\n  clean the `between` property\n  * if `newParent` is in another {@link Root}.\n  *\n  * @param {Container}\n  newParent - container node where the current node\n  * will be moved\n  * \n  * @example\n  *\n  atrule.moveTo(atrule.root());\n  * \n  * @return {Node} current node to methods chain\n  *\n  moveTo(newParent) {\n    this.cleanRaws(this.root() === newParent.root());\n    this.remove();\n    newParent.append(this);\n    return this;\n  }\n /**\n  * Removes the node from its current parent and inserts it\n  into\n  * a new parent before `otherNode`.\n  *\n  * This will also clean the node's code style properties just as it\n  would\n  * in {@link Node#moveTo}.\n  *\n  * @param {Node} otherNode - node that will be before current\n  node\n  * \n  * @return {Node} current node to methods chain\n  *\n  moveBefore(otherNode) {\n    this.cleanRaws(this.root() === otherNode.root());\n    this.remove();\n    otherNode.parent.insertBefore(otherNode,\n    this);\n    return this;\n  }\n /**\n  * Removes the node from its current parent and inserts it into\n  * a new parent\n  after `otherNode`.\n  *\n  * This will also clean the node's code style properties just as it would\n  * in {@link\n  Node#moveTo}.\n  *\n  * @param {Node} otherNode - node that will be after current node\n  *\n  * @return {Node} current node to methods chain\n  *\n  moveAfter(otherNode) {\n    this.cleanRaws(this.root() === otherNode.root());\n    this.remove();\n    otherNode.parent.insertAfter(otherNode,\n    this);\n    return this;\n  }\n /**\n  * Returns the next child of the node's parent.\n  * Returns `undefined` if the\n  current node is the last child.\n  *\n  * @return {Node|undefined} next node\n  *\n  * @example\n  * if (\n  comment.text === 'delete next' ) {\n  *\n  const next = comment.next();\n  * if ( next ) {\n  *\n  next.remove();\n  * }\n  * }\n  *\n  next() {\n    const index = this.parent.index(this);\n    return this.parent.nodes[index + 1];\n  }\n /**\n  * Returns the previous child of the node's parent.\n  * Returns `undefined` if the current node is the first\n  child.\n  *\n  * @return {Node|undefined} previous node\n  *\n  * @example\n  * const annotation =\n  decl.prev();\n  * if ( annotation.type === 'comment' ) {\n  *\n  readAnnotation(annotation.text);\n  * }\n  *\n  prev() {\n    const index = this.parent.index(this);\n    return this.parent.nodes[index - 1];\n  }\n }\n\n toJSON() {\n  const fixed = {};\n  for (const name in this) {\n    if (!this.hasOwnProperty(name)) continue;\n
```



\* Every parser saves its own properties, but the default CSS parser uses:  
 \* `before`: the space symbols before the node. It also stores ` ` and ` \_ ` symbols before the declaration (IE hack).  
 \* `after`: the space symbols after the last child of the node to the end of the node.  
 \* `between`: the symbols between the property and value for

declarations, selector and `{` for rules, or last parameter and `{` for at-rules.  
 \* `semicolon`: contains true if the last child has an (optional) semicolon.  
 \* `afterName`: the space between the at-rule name and its parameters.  
 \* `left`: the space symbols between `/\*` and the comment's text.  
 \* `right`: the space symbols between the comment's text and `<code>*&#47;</code>`.  
 * `important`: the content of the important statement, if it is not just `!important`.  
 * PostCSS cleans selectors, declaration values and at-rule parameters from comments and extra spaces, but it stores origin content in raw properties. As such, if you don't change a declaration's value, PostCSS will use the raw value with comments.  
 * @example  
 const root = postcss.parse('a {\n color:black\n}')  
 root.first.first.raws //=> { before: '\n ', between: ' ' }  
 * \n\nexport default Node;  
 * "/ @flow\nimport`

```
warnOnce from './warn-once';
import Node from './node';
/** Represents a CSS declaration.
 *
 * @extends Node
 * @example
 * const root = postcss.parse('a { color: black }');
 * const decl = root.first.first;
 * decl.type //=> 'decl'
 * decl.toString() //=> ' color: black'
 *
 * class Declaration extends Node {
 *   constructor(defaults) {
 *     super(defaults);
 *     this.type = 'decl';
 *   }
 *   get _value() {
 *     warnOnce('Node#_value was deprecated. Use Node#raws.value');
 *     return this.raws.value;
 *   }
 *   set _value(val) {
 *     warnOnce('Node#_value was deprecated. Use Node#raws.value');
 *     this.raws.value = val;
 *   }
 *   get _important() {
 *     warnOnce('Node#_important was deprecated. Use Node#raws.important');
 *     return this.raws.important;
 *   }
 *   set _important(val) {
 *     warnOnce('Node#_important was deprecated. Use Node#raws.important');
 *     this.raws.important = val;
 *   }
 * }
 *
 * @memberof Declaration#
 * @member {string} prop
```

- the declaration's property name  
 \* `@example`  
 const root = postcss.parse('a { color: black }');  
 const decl = root.first.first;  
 decl.prop //=> 'color'  
 \* `@memberof Declaration#`  
 \* `@member {string} value` - the declaration's value  
 \* `@example`  
 const root = postcss.parse('a { color: black }');  
 const decl = root.first.first;  
 decl.value //=> 'black'  
 \* `@memberof Declaration#`  
 \* `@member {boolean} important` - `true` if the declaration has an `!important` annotation.  
 \* `@example`  
 const root = postcss.parse('a { color: black !important; color: red }');  
 root.first.first.important //=> true  
 root.first.last.important //=> undefined  
 \* `@memberof Declaration#`  
 \* `@member {object} raws` - Information to generate byte-to-byte equal node string as it was in the origin input.  
 \* Every parser

saves its own properties, but the default CSS parser uses:  
 \* `before`: the space symbols before the node. It also stores ` ` and ` \_ ` symbols before the declaration (IE hack).  
 \* `between`: the symbols between the property and value for declarations, selector and `{` for rules, or last parameter and `{` for at-rules.  
 \* `important`: the content of the important statement, if it is not just `!important`.  
 \* PostCSS cleans declaration from comments and extra spaces, but it stores origin content in `raw` properties.  
 \* As such, if you don't change a declaration's value, PostCSS will use the raw value with comments.  
 \* `@example`  
 const root = postcss.parse('a {\n color:black\n}')  
 root.first.first.raws //=> { before: '\n ', between: ' ' }  
 \* `\n\nexport default Declaration;`  
 \* `"/ @flow\nimport warnOnce from './warn-once';\nimport Node from './node';`  
 \* `/** Represents a comment`

```
between declarations or statements (rule and at-rules).
 *
 * Comments inside selectors, at-rule parameters, or declaration values will be stored in the `raws` properties explained above.
 *
 * @extends Node
 *
 * class Comment extends Node {
 *   constructor(defaults) {
 *     super(defaults);
 *     this.type = 'comment';
 *   }
 *   get left() {
 *     warnOnce('Comment#left was deprecated. Use Comment#raws.left');
 *     return this.raws.left;
 *   }
 *   set left(val) {
 *     warnOnce('Comment#left was deprecated. Use Comment#raws.left');
 *     this.raws.left = val;
 *   }
 *   get right() {
 *     warnOnce('Comment#right was deprecated. Use Comment#raws.right');
 *     return this.raws.right;
 *   }
 *   set right(val) {
 *     warnOnce('Comment#right was deprecated. Use Comment#raws.right');
 *     this.raws.right
```

```

= val;\n } \n\n /*\n * @memberof Comment#\n * @member {string} text - the comment's text\n * \n\n /*\n * @memberof Comment#\n * @member {object} raws - Information to
generate byte-to-byte equal\n * node string as it was in the origin input.\n * \n * Every parser
saves its own properties,\n * but the default CSS parser uses:\n * \n * `before`: the space symbols before the
node.\n * `left`: the space symbols between `/*` and the comment's text.\n * `right`: the space symbols
between the comment's text.\n * \n\n \n\n\nexport default Comment;\n", "// @flow\nimport Declaration from
'./declaration';\nimport tokenizer from './tokenize';\nimport Comment from './comment';\nimport AtRule from './at-
rule';\nimport Root from './root';\nimport Rule from './rule';\n\n\nexport default class Parser {\n  constructor(input) {\n
this.input = input;\n  this.pos = 0;\n  this.root = new Root();\n  this.current = this.root;\n  this.spaces = "";\n
this.semicolon = false;\n  this.root.source = { input, start: { line: 1, column: 1 } };\n  }\n  tokenize() {\n
this.tokens = tokenizer(this.input);\n  }\n  loop()\n  {\n    let token;\n    while (this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      switch
(token[0]) {\n        case 'space':\n          case ';':\n            this.spaces += token[1];\n            break;\n\n          case '':\n
this.end(token);\n            break;\n\n          case 'comment':\n            this.comment(token);\n            break;\n\n          case 'at-
word':\n            this.atrule(token);\n            break;\n\n          case '{':\n            this.emptyRule(token);\n            break;\n\n
default:\n            this.other();\n            break;\n        }\n\n        this.pos += 1;\n      }\n      this.endFile();\n    }\n  }\n  comment(token) {\n    const node = new Comment();\n    this.init(node, token[2], token[3]);\n    node.source.end = {
line: token[4], column: token[5] };\n    const text = token[1].slice(2, -2);\n    if (/^\s*$/ .test(text)) {\n      node.text
= "";\n      node.raws.left = text;\n      node.raws.right = "";\n    } else {\n      const match =
text.match(/^(\\s*)([^\s]*)(\\s*)$/);\n      node.text = match[2];\n      node.raws.left = match[1];\n      node.raws.right = match[3];\n    }\n  }\n  emptyRule(token) {\n    const node = new Rule();\n    this.init(node, token[2], token[3]);\n    node.selector = "";\n
node.raws.between = "";\n    this.current = node;\n  }\n  other() {\n    let token;\n    let end = false;\n    let type =
null;\n    let colon = false;\n    let bracket = null;\n    const brackets = [];\n    const start = this.pos;\n    while
(this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      type = token[0];\n\n      if (type === '(' || type
=== '[') {\n        if (!bracket) bracket = token;\n        brackets.push(type === '(' ? ')' : ']');\n      } else if
(brackets.length === 0) {\n        if (type === ';') {\n          if (colon) {\n            this.decl(this.tokens.slice(start,
this.pos + 1));\n            return;\n          } else {\n            break;\n          }\n        }\n      } else if (type === '{') {\n        this.rule(this.tokens.slice(start, this.pos + 1));\n        return;\n      } else if (type ===
}') {\n        this.pos -= 1;\n        end = true;\n        break;\n      } else if (type === ':') {\n        colon = true;\n      }\n    }\n    } else if (type === brackets[brackets.length - 1]) {\n      brackets.pop();\n      if (brackets.length === 0)\n        bracket = null;\n    }\n    this.pos += 1;\n  }\n  if (this.pos === this.tokens.length) {\n    this.pos -= 1;\n    end = true;\n  }\n  if (brackets.length > 0) this.unclosedBracket(bracket);\n  if (end && colon) {\n    while
(this.pos > start) {\n      token = this.tokens[this.pos][0];\n      if (token !== 'space' && token !== 'comment')\n        break;\n      this.pos -= 1;\n    }\n    this.decl(this.tokens.slice(start, this.pos + 1));\n    return;\n  }\n  this.unknownWord(start);\n  }\n  rule(tokens) {\n    tokens.pop();\n    const node = new Rule();\n    this.init(node, tokens[0][2], tokens[0][3]);\n    node.raws.between = this.spacesFromEnd(tokens);\n    this.raw(node, 'selector', tokens);\n    this.current = node;\n  }\n  decl(tokens) {\n    const node = new
Declaration();\n    this.init(node);\n    const last = tokens[tokens.length - 1];\n    if (last[0] === ';') {\n      this.semicolon = true;\n      tokens.pop();\n    }\n    if (last[4]) {\n      node.source.end = { line: last[4], column:
last[5] };\n    } else {\n      node.source.end = { line: last[2], column: last[3] };\n    }\n    while (tokens[0][0] !==
'word') {\n      node.raws.before += tokens.shift()[1];\n    }\n    node.source.start = { line: tokens[0][2], column:
tokens[0][3] };\n    node.prop = "";\n    while (tokens.length) {\n      const type = tokens[0][0];\n      if (type === ':' ||
type === 'space' || type === 'comment') {\n        break;\n      }\n      node.prop += tokens.shift()[1];\n    }\n    node.raws.between = "";\n    let token;\n    while
(tokens.length) {\n      token = tokens.shift();\n      if (token[0] === ':') {\n        node.raws.between += token[1];\n        break;\n      } else {\n        node.raws.between += token[1];\n      }\n    }\n    if (node.prop[0] === '_' ||
node.prop[0] === '*') {\n      node.raws.before += node.prop[0];\n      node.prop = node.prop.slice(1);\n    }\n  }\n}

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node.rows.between += this.spacesFromStart(tokens);\n  this.precheckMissedSemicolon(tokens);\n\n  for (let i =
tokens.length - 1; i > 0; i--) {\n    token = tokens[i];\n    if (token[1] === '!important') {\n      node.important =
true;\n      let string = this.stringFrom(tokens, i);\n      string = this.spacesFromEnd(tokens) + string;\n      if
(string !== '!important') node.rows.important = string;\n      break;\n    } else if (token[1] === 'important') {\n
const cache = tokens.slice(0);\n    let str = ";\n    for (let j = i; j > 0; j--) {\n      const type = cache[j][0];\n
if (str.trim().indexOf(')')
=== 0 && type !== 'space') {\n        break;\n      }\n      str = cache.pop()[1] + str;\n    }\n    if
(str.trim().indexOf(')') === 0) {\n      node.important = true;\n      node.rows.important = str;\n      tokens =
cache;\n    }\n  }\n\n  if (token[0] !== 'space' && token[0] !== 'comment') {\n    break;\n  }\n\n  this.raw(node, 'value', tokens);\n\n  if (node.value.indexOf(':') !== -1) this.checkMissedSemicolon(tokens);\n}\n\n
atrul(token) {\n  const node = new AtRule();\n  node.name = token[1].slice(1);\n  if (node.name === "") {\n
this.unnamedAtrule(node, token);\n  }\n  this.init(node, token[2], token[3]);\n\n  let last = false;\n  let open =
false;\n  const params = [];\n\n  this.pos += 1;\n  while (this.pos < this.tokens.length) {\n    token =
this.tokens[this.pos];\n\n    if (token[0] === ';') {\n      node.source.end = { line: token[2], column: token[3] };\n
      this.semicolon = true;\n      break;\n    } else if (token[0] === '{') {\n      open = true;\n      break;\n    }
else if (token[0] === '}') {\n      this.end(token);\n      break;\n    } else {\n      params.push(token);\n    }\n\n
this.pos += 1;\n  }\n\n  if (this.pos === this.tokens.length) {\n    last = true;\n  }\n\n  node.rows.between =
this.spacesFromEnd(params);\n  if (params.length) {\n    node.rows.afterName = this.spacesFromStart(params);\n
this.raw(node, 'params', params);\n    if (last) {\n      token = params[params.length - 1];\n      node.source.end
= { line: token[4], column: token[5] };\n      this.spaces = node.rows.between;\n      node.rows.between = ";\n
}\n  } else {\n    node.rows.afterName = ";\n    node.params = ";\n  }\n\n  if (open) {\n    node.nodes = [];\n
this.current = node;\n  }\n}\n\nend(token) {\n  if (this.current.nodes && this.current.nodes.length) {\n
this.current.rows.semicolon = this.semicolon;\n  }\n  this.semicolon = false;\n\n  this.current.rows.after =
(this.current.rows.after || "") + this.spaces;\n  this.spaces = ";\n\n  if (this.current.parent) {\n
this.current.source.end = { line: token[2], column: token[3] };\n    this.current = this.current.parent;\n  } else {\n
this.unexpectedClose(token);\n  }\n}\n\nendFile() {\n  if (this.current.parent) this.unclosedBlock();\n  if
(this.current.nodes && this.current.nodes.length) {\n    this.current.rows.semicolon = this.semicolon;\n  }\n
this.current.rows.after = (this.current.rows.after || "") + this.spaces;\n}\n\n// Helpers\n\ninit(node, line, column)
{\n  this.current.push(node);\n\n  node.source = { start: { line, column }, input: this.input };\n  node.rows.before
= this.spaces;\n  this.spaces = ";\n  if (node.type !== 'comment') this.semicolon = false;\n}\n\nraw(node, prop,
tokens) {\n  let token, type;\n  const
length = tokens.length;\n  let value = ";\n  let clean = true;\n  for (let i = 0; i < length; i += 1) {\n    token =
tokens[i];\n    type = token[0];\n    if (type === 'comment' || (type === 'space' && i === length - 1)) {\n      clean
= false;\n    } else {\n      value += token[1];\n    }\n  }\n  if (!clean) {\n    const raw = tokens.reduce((all, i)
=> all + i[1], ");\n    node.rows[prop] = { value, raw };\n  }\n  node[prop] = value;\n}\n\nspacesFromEnd(tokens) {\n
let lastTokenType;\n  let spaces = ";\n  while (tokens.length) {\n    lastTokenType
= tokens[tokens.length - 1][0];\n    if (lastTokenType !== 'space' && lastTokenType !== 'comment') break;\n
spaces = tokens.pop()[1] + spaces;\n  }\n  return spaces;\n}\n\nspacesFromStart(tokens) {\n  let next;\n  let
spaces = ";\n  while (tokens.length) {\n    next = tokens[0][0];\n    if (next !== 'space' && next !== 'comment')
break;\n    spaces += tokens.shift()[1];\n  }\n\n  return spaces;\n}\n\nstringFrom(tokens, from) {\n  let result = ";\n
for (let i = from; i < tokens.length;
i++) {\n    result += tokens[i][1];\n  }\n  tokens.splice(from, tokens.length - from);\n  return result;\n}\n\n
colon(tokens) {\n  let brackets = 0;\n  let token, type, prev;\n  for (let i = 0; i < tokens.length; i++) {\n    token =
tokens[i];\n    type = token[0];\n\n    if (type === '(') {\n      brackets += 1;\n    } else if (type === ')') {\n
brackets -= 1;\n    } else if (brackets === 0 && type === ':') {\n      if (!prev) {\n        this.doubleColon(token);\n
      } else if (prev[0] === 'word' && prev[1] === 'progid') {\n        continue;\n      } else {\n        return i;\n
      }\n    }\n\n    prev = token;\n  }\n  return false;\n}\n\n// Errors\n\nunclosedBracket(bracket) {\n  throw
this.input.error('Unclosed bracket', bracket[2], bracket[3]);\n}\n\nunknownWord(start) {\n  const

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token = this.tokens[start];\n  throw this.input.error('Unknown word', token[2], token[3]);\n }\n\nunexpectedClose(token) {\n  throw this.input.error('Unexpected }', token[2], token[3]);\n }\n\nunclosedBlock(\n  {\n    const pos = this.current.source.start;\n    throw this.input.error('Unclosed block', pos.line, pos.column);\n  })\n\ndoubleColon(token) {\n  throw this.input.error('Double colon', token[2], token[3]);\n }\n\nunnamedAtrule(node,\n  token) {\n  throw this.input.error('At-rule without name', token[2], token[3]);\n }\n\nprecheckMissedSemicolon(tokens) {\n  // Hook for Safe Parser\n  tokens;\n }\n\ncheckMissedSemicolon(tokens) {\n  const colon = this.colon(tokens);\n  if (colon === false) return;\n\n  let\n  founded = 0;\n  let token;\n  for (let j = colon - 1; j >= 0; j--) {\n    token = tokens[j];\n    if (token[0] !==\n    'space') {\n      founded += 1;\n      if (founded === 2) break;\n    }\n  }\n  throw this.input.error('Missed\n  semicolon', token[2], token[3]);\n }\n\n", "// @flow\n\nimport Parser from './parser';\nimport Input from\n  './input';\n\nexport default function parse(css, opts) {\n  if (opts && opts.safe) {\n    throw new Error('Option safe\n    was removed. ' + 'Use parser: require(\"postcss-safe-parser\");\n  }\n\n  const input = new Input(css, opts);\n  const parser = new Parser(input);\n  try {\n    parser.tokenize();\n    parser.loop();\n  } catch (e) {\n    if (e.name ===\n    'CssSyntaxError' && opts && opts.from) {\n      if (/\\s\\.scss$/i.test(opts.from)) {\n        e.message +=\n        '\n\nYou\n        tried to parse SCSS with ' +\n        '\n        'the standard CSS parser; ' +\n        '\n        'try again with the postcss-scss parser;'\n      }\n    } else if (/\\s\\.less$/i.test(opts.from)) {\n      e.message +=\n      '\n\nYou\n        tried to parse Less with ' +\n        '\n        'the\n        standard CSS parser; ' +\n        '\n        'try again with the postcss-less parser;'\n    }\n  }\n  throw e;\n }\n\n  return\n  parser.root;\n }\n\n", "// @flow\n\nimport\n  parse from './parse';\nimport Root from './root';\nimport Rule from './rule';\nimport AtRule from './at-rule';\nimport\n  Declaration from './declaration';\nimport warnOnce from './warn-once';\nimport Comment from './comment';\nimport\n  Node from './node';\n\nfunction cleanSource(nodes) {\n  return nodes.map(i => {\n    if (i.nodes) i.nodes =\n    cleanSource(i.nodes);\n    delete i.source;\n    return i;\n  });\n }\n\n/**\n * @callback childCondition\n * @param\n  {Node} node - container child\n * @param {number} index - child index\n * @param {Node[]} nodes - all\n  container children\n * @return {boolean} - true if node is child\n * @callback childIterator\n * @param {Node} node -\n  container child\n * @param {number} index - child index\n * @return {false|undefined} returning `false` will break\n  iteration\n * @link Root, { @link AtRule }, and { @link Rule } container nodes\n * inherit some\n  common methods to help work with their children.\n * Note that all containers can store any\n  content. If you write a rule inside\n * a rule, PostCSS will parse it.\n * @extends Node\n * @abstract\n *\n  class Container extends Node {\n    push(child) {\n      child.parent = this;\n      this.nodes.push(child);\n      return\n      this;\n    }\n\n    /**\n     * Iterates through the container's immediate children,\n     * calling `callback` for each child.\n     *\n     * Returning `false` in the callback will break iteration.\n     *\n     * This method only iterates through the\n     * container's immediate children.\n     *\n     * If you need to recursively iterate through all the container's descendant\n     * nodes, use { @link Container#walk }.\n     *\n     * Unlike the for `{}`-cycle or `Array#forEach` this iterator is safe\n     * if you are mutating the array of child nodes during iteration.\n     *\n     * PostCSS will adjust the current index to match the\n     * mutations.\n     *\n     * @param {childIterator} callback - iterator receives each node and index\n     * @return\n     {false|undefined} returns `false` if iteration was broke\n     *\n     * @example\n     * const root = postcss.parse('a { color: black; z-index: 1 }');\n     * const rule = root.first;\n     * for (let decl of rule.nodes) {\n     *   decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n     *   // Cycle will\n     *   be infinite, because cloneBefore moves the current node\n     *   // to the next index\n     * }\n     * rule.each(decl\n     => {\n     *   decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n     *   // Will be executed only for color and z-\n     *   index\n     * });\n     *\n     * each(callback) {\n     *   if (!this.lastEach) this.lastEach = 0;\n     *   if (!this.indexes) this.indexes =\n     *   {};\n     *   this.lastEach += 1;\n     *   const id = this.lastEach;\n     *   this.indexes[id] = 0;\n     *   if (!this.nodes) return\n     *   undefined;\n     *   let index, result;\n     *   while (this.indexes[id] < this.nodes.length) {\n     *     index = this.indexes[id];\n     *     result = callback(this.nodes[index], index);\n     *     if (result === false) break;\n     *     this.indexes[id] += 1;\n     *   }\n     *   delete this.indexes[id];\n     *\n     *   return result;\n     * }\n     *\n     * Traverses the container's descendant nodes, calling callback\n     * for each node.\n     *\n     * Like container.each(), this method is safe to use\n     * if you are mutating arrays during iteration.\n     *\n     * If\n     * you only need to iterate through the container's immediate children,\n     * use { @link Container#each }.\n     *\n     */

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@param {childIterator} callback - iterator receives each node and index\n * \n * @return {false|undefined} returns
`false` if iteration was broke\n * \n * @example\n * root.walk(node => {\n * // Traverses all descendant
nodes.\n * });\n * \n * walk(callback) {\n * return this.each((child, i) => {\n * let result = callback(child, i);\n * if
(result !== false && child.walk) {\n * result = child.walk(callback);\n * }\n * return result;\n * });\n * }\n * \n
/**\n * Traverses the container's descendant nodes, calling callback\n * for each declaration node.\n * \n * If
you pass
a filter, iteration will only happen over declarations\n * with matching properties.\n * \n * Like {@link
Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n * \n * @param
{string|RegExp} [prop] - string or regular expression\n * to filter declarations by property
name\n * \n * @param {childIterator} callback - iterator receives each node and index\n * \n * @return
{false|undefined} returns `false` if iteration was broke\n * \n * @example\n * root.walkDecls(decl => {\n *
checkPropertySupport(decl.prop);\n * });\n * \n * root.walkDecls('border-radius', decl => {\n *
decl.remove();\n * });\n * \n * root.walkDecls(/^background/, decl => {\n * decl.value =
takeFirstColorFromGradient(decl.value);\n * });\n * \n * walkDecls(prop, callback) {\n * if (!callback) {\n
callback = prop;\n * return this.walk((child, i) => {\n * if (child.type === 'decl') {\n
return callback(child, i);\n * }\n * });\n * } else if (prop instanceof RegExp) {\n * return this.walk((child, i)
=> {\n * if (child.type === 'decl' && prop.test(child.prop)) {\n * return callback(child, i);\n * }\n * });\n * }
else {\n * return this.walk((child, i) => {\n * if (child.type === 'decl' && child.prop === prop) {\n * return
callback(child, i);\n * }\n * });\n * }\n * }\n * \n
/**\n * Traverses the container's descendant nodes, calling
callback\n * for each rule node.\n * \n * If you pass a filter, iteration will only happen over rules\n * with
matching selectors.\n * \n * Like {@link Container#each}, this method is safe\n * to use if you are mutating
arrays during iteration.\n * \n * @param {string|RegExp} [selector] - string or regular expression\n *
to filter rules by selector\n * \n * @param {childIterator} callback - iterator receives each node and index\n
*\n * \n
* @return {false|undefined} returns `false` if iteration was broke\n * \n * @example\n * const selectors = [];\n
* root.walkRules(rule => {\n * selectors.push(rule.selector);\n * });\n * console.log(`Your CSS uses
${selectors.length} selectors`);\n * \n * walkRules(selector, callback) {\n * if (!callback) {\n * callback =
selector;\n * return this.walk((child, i) => {\n * if (child.type === 'rule') {\n * return callback(child, i);\n
* }\n * });\n * } else if (selector instanceof RegExp) {\n * return this.walk((child, i) => {\n * if (child.type ===
'rule' && selector.test(child.selector)) {\n * return callback(child, i);\n * }\n * });\n * } else {\n * return
this.walk((child, i) => {\n * if (child.type === 'rule' && child.selector === selector) {\n * return
callback(child, i);\n * }\n * });\n * }\n * }\n * \n
/**\n * Traverses the container's descendant nodes, calling
callback\n * for each
at-rule node.\n * \n * If you pass a filter, iteration will only happen over at-rules\n * that have matching names.\n
*\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n
*\n * @param {string|RegExp} [name] - string or regular expression\n * to filter at-rules by
name\n * \n * @param {childIterator} callback - iterator receives each node and index\n * \n * @return
{false|undefined} returns `false` if iteration was broke\n * \n * @example\n * root.walkAtRules(rule => {\n *
if ( isOld(rule.name) ) rule.remove();\n * });\n * \n * let first = false;\n * root.walkAtRules('charset', rule => {\n
* if ( !first ) {\n * first = true;\n * } else {\n * rule.remove();\n * }\n * });\n * \n * walkAtRules(name,
callback) {\n * if (!callback) {\n * callback = name;\n * return this.walk((child, i) => {\n * if (child.type ===
'atrule') {\n
return callback(child, i);\n * }\n * });\n * } else if (name instanceof RegExp) {\n * return
this.walk((child, i) => {\n * if (child.type === 'atrule' && name.test(child.name)) {\n * return callback(child,
i);\n * }\n * });\n * } else {\n * return this.walk((child, i) => {\n * if (child.type === 'atrule' && child.name
=== name) {\n * return callback(child, i);\n * }\n * });\n * }\n * }\n * \n
/**\n * Traverses the container's
descendant nodes, calling callback\n * for each comment node.\n * \n * Like {@link Container#each}, this
method is safe\n * to use if you are mutating arrays during iteration.\n * \n * @param {childIterator} callback -

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iterator receives each node and index\n * \n * @return {false|undefined} returns `false` if iteration was broke\n
*\n * @example\n * root.walkComments(comment => {\n * comment.remove();\n * });\n *\n walkComments(callback) {\n return this.walk((child,\n
i) => {\n if (child.type === 'comment') {\n return callback(child, i);\n } }\n });\n }\n\n /**\n * Inserts new nodes to the start of the container.\n *\n * @param {...(Node|object|string|Node[])} children - new nodes\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.append(decl1, decl2);\n *\n * root.append({ name: 'charset', params: '"UTF-8"' }); // at-rule\n *\n * root.append({ selector: 'a' }); // rule\n *\n * rule.append({ prop: 'color', value: 'black' }); // declaration\n *\n * rule.append({ text: 'Comment' }) // comment\n *\n * root.append('a {}');\n *\n * root.first.append('color: black; z-index: 1');\n *\n * root.append(...children) {\n children.forEach(child => {\n const nodes = this.normalize(child, this.last);\n
nodes.forEach(node => this.nodes.push(node));\n });\n return this;\n }\n\n /**\n * Inserts new nodes to the end of the container.\n *\n * @param {...(Node|object|string|Node[])} children - new nodes\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.prepend(decl1, decl2);\n *\n * root.append({ name: 'charset', params: '"UTF-8"' }); // at-rule\n *\n * root.append({ selector: 'a' }); // rule\n *\n * rule.append({ prop: 'color', value: 'black' }); // declaration\n *\n * rule.append({ text: 'Comment' }) // comment\n *\n * root.append('a {}');\n *\n * root.first.append('color: black; z-index: 1');\n *\n * root.prepend(...children) {\n children = children.reverse();\n children.forEach(child => {\n const nodes = this.normalize(child,\n
this.first, 'prepend').reverse();\n nodes.forEach(node => this.nodes.unshift(node));\n for (const id in this.indexes) {\n this.indexes[id] = this.indexes[id] + nodes.length;\n }\n });\n return this;\n }\n\n cleanRaws(keepBetween) {\n super.cleanRaws(keepBetween);\n if (this.nodes) {\n this.nodes.forEach(node => node.cleanRaws(keepBetween));\n }\n }\n\n /**\n * Insert new node before old node within the container.\n *\n * @param {Node|number} exist - child or child's index.\n *\n * @param {Node|object|string|Node[]} add - new node\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * rule.insertBefore(decl, decl.clone({ prop: '-webkit-' + decl.prop }));\n *\n * root.insertBefore(exist, add) {\n exist = this.index(exist);\n const type = exist === 0 ? 'prepend' : false;\n const nodes = this.normalize(add, this.nodes[exist], type).reverse();\n nodes.forEach(node => this.nodes.splice(exist,\n
0, node));\n\n let index;\n for (const id in this.indexes) {\n index = this.indexes[id];\n if (exist <= index) {\n this.indexes[id] = index + nodes.length;\n }\n }\n\n return this;\n }\n\n /**\n * Insert new node after old node within the container.\n *\n * @param {Node|number} exist - child or child's index\n *\n * @param {Node|object|string|Node[]} add - new node\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * rule.insertAfter(decl, decl.clone({ prop: '-webkit-' + decl.prop }));\n *\n * root.insertAfter(exist, add) {\n exist = this.index(exist);\n const nodes = this.normalize(add,\n
this.nodes[exist]).reverse();\n nodes.forEach(node => this.nodes.splice(exist + 1, 0, node));\n\n let index;\n for (const id in this.indexes) {\n index = this.indexes[id];\n if (exist < index) {\n this.indexes[id] = index + nodes.length;\n }\n }\n\n return this;\n }\n\n remove(child) {\n if (typeof child !== 'undefined') {\n warnOnce('Container#remove is deprecated.\n
' + 'Use Container#removeChild');\n this.removeChild(child);\n } else {\n super.remove();\n }\n return this;\n }\n\n /**\n * Removes node from the container and cleans the parent properties\n * from the node and its children.\n *\n * @param {Node|number} child - child or child's index\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * rule.nodes.length // => 5\n * rule.removeChild(decl);\n *\n * rule.nodes.length // => 4\n * decl.parent // => undefined\n *\n * root.removeChild(child) {\n child = this.index(child);\n this.nodes[child].parent = undefined;\n this.nodes.splice(child, 1);\n\n let index;\n for (const id in this.indexes) {\n index = this.indexes[id];\n if (index >= child) {\n this.indexes[id] = index - 1;\n }\n }\n\n return this;\n }\n\n /**\n * Removes all children from the container\n * and cleans their parent properties.\n *\n * @return {Node} this node

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for methods chain\n * \n * @example\n * rule.removeAll();\n * rule.nodes.length //=> 0\n * \n removeAll()\n {\n this.nodes.forEach(node => (node.parent = undefined));\n this.nodes = [];\n return this;\n }\n\n /**\n * Passes all declaration values within the container that match pattern\n * through callback, replacing those values\n * with the returned result\n * of callback.\n * \n * This method is useful if you are using a custom unit or\n * function\n * and need to iterate through all values.\n * \n * @param {string|RegExp} pattern - replace\n * pattern\n * @param {object} opts - options to speed up the search\n * @param {string|string[]} opts.props - an array of property names\n * @param {string} opts.fast - string that's used\n * to narrow down values and speed up\n * the regexp search\n * @param\n * {function|string} callback\n * - string to replace pattern\n * or callback that returns a new\n * value.\n * \n * The callback will receive\n * the same arguments as\n * those\n * passed to a function parameter\n * of\n * `String#replace`.\n * \n * @return {Node} this node for methods chain\n * \n * @example\n * root.replaceValues(/\\d+rem/, { fast: 'rem' }, string => {\n * return 15 * parseInt(string) + 'px';\n * });\n * \n * \n * \n * replaceValues(pattern, opts, callback) {\n * if (!callback) {\n * callback = opts;\n * opts = {};\n * }\n * \n * \n * this.walkDecls(decl => {\n * if (opts.props && opts.props.indexOf(decl.prop) === -1) return;\n * if (opts.fast &&\n * decl.value.indexOf(opts.fast) === -1) return;\n * decl.value = decl.value.replace(pattern,\n * callback);\n * });\n * \n * \n * return this;\n * })\n * \n * \n * Returns `true` if callback returns `true`\n * for all of the\n * container's children.\n * \n * @param {childCondition} condition - iterator returns true or false.\n * \n * @return {boolean} is every child pass condition\n * \n * @example\n * const noPrefixes = rule.every(i =>\n * i.prop[0] !== '-');\n * \n * \n * every(condition) {\n * return this.nodes.every(condition);\n * }\n * \n * \n * Returns `true`\n * if callback returns `true` for (at least) one\n * of the container's children.\n * \n * @param {childCondition}\n * condition - iterator returns true or false.\n * \n * @return {boolean} is some child pass condition\n * \n * @example\n * const hasPrefix = rule.some(i => i.prop[0] === '-');\n * \n * \n * some(condition) {\n * return\n * this.nodes.some(condition);\n * }\n * \n * \n * Returns a `child`'s index within the {@link Container#nodes} array.\n * \n * @param {Node} child - child of the current container.\n * \n * @return {number} child index\n * \n * @example\n * rule.index( rule.nodes[2] ) //=> 2\n * \n * \n * index(child) {\n * if (typeof child === 'number') {\n * return child;\n * } else {\n * return\n * this.nodes.indexOf(child);\n * }\n * }\n * \n * \n * The container's first child.\n * \n * @type {Node}\n * \n * @example\n * rule.first === rules.nodes[0];\n * \n * \n * get first() {\n * if (!this.nodes) return undefined;\n * return\n * this.nodes[0];\n * }\n * \n * \n * The container's last child.\n * \n * @type {Node}\n * \n * @example\n * rule.last === rule.nodes[rule.nodes.length - 1];\n * \n * \n * get last() {\n * if (!this.nodes) return undefined;\n * return\n * this.nodes[this.nodes.length - 1];\n * }\n * \n * \n * normalize(nodes, sample) {\n * if (typeof nodes === 'string') {\n * nodes\n * = cleanSource(parse(nodes).nodes);\n * } else if (!Array.isArray(nodes)) {\n * if (nodes.type === 'root') {\n * nodes = nodes.nodes;\n * } else if (nodes.type) {\n * nodes = [nodes];\n * } else if (nodes.prop) {\n * if (typeof nodes.value === 'undefined') {\n * throw\n * new Error('Value field is missed in node creation');\n * } else if (typeof nodes.value !== 'string') {\n * nodes.value = String(nodes.value);\n * }\n * nodes = [new Declaration(nodes)];\n * } else if (nodes.selector)\n * {\n * nodes = [new Rule(nodes)];\n * } else if (nodes.name) {\n * nodes = [new AtRule(nodes)];\n * } else if\n * (nodes.text) {\n * nodes = [new Comment(nodes)];\n * } else {\n * throw new Error('Unknown node type in\n * node creation');\n * }\n * }\n * \n * \n * const processed = nodes.map(i => {\n * if (typeof i.raws === 'undefined') i =\n * this.rebuild(i);\n * \n * \n * if (i.parent) i = i.clone();\n * \n * \n * if (typeof i.raws.before === 'undefined') {\n * if (sample &&\n * typeof sample.raws.before !== 'undefined') {\n * i.raws.before = sample.raws.before.replace(/^(\\s)/g, '');\n * }\n * }\n * \n * \n * i.parent = this;\n * return i;\n * });\n * \n * \n * return processed;\n * }\n * \n * \n * rebuild(node, parent) {\n * let fix;\n * if\n * (node.type === 'root') {\n * fix = new Root();\n * } else if (node.type === 'atrul') {\n * fix = new AtRule();\n * }\n * \n * \n * else if (node.type === 'rule') {\n * fix = new Rule();\n * } else if (node.type === 'decl') {\n * fix = new\n * Declaration();\n * } else if (node.type === 'comment') {\n * fix = new Comment();\n * }\n * \n * \n * for (const i in node)

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{\n  if (i === 'nodes') {\n    fix.nodes = node.nodes.map(j => this.rebuild(j, fix));\n  } else if (i === 'parent'
&& parent) {\n    fix.parent = parent;\n  } else if (node.hasOwnProperty(i)) {\n    fix[i] = node[i];\n  }\n}
}\n\n return fix;\n }\n\n eachInside(callback) {\n  warnOnce('Container#eachInside is deprecated.' + 'Use
Container#walk instead.);\n  return this.walk(callback);\n }\n\n eachDecl(prop, callback) {\n
warnOnce('Container#eachDecl is deprecated.'
+ 'Use Container#walkDecls instead.);\n  return this.walkDecls(prop, callback);\n }\n\n eachRule(selector,
callback) {\n  warnOnce('Container#eachRule is deprecated.' + 'Use Container#walkRules instead.);\n  return
this.walkRules(selector, callback);\n }\n\n eachAtRule(name, callback) {\n  warnOnce('Container#eachAtRule is
deprecated.' + 'Use Container#walkAtRules instead.);\n  return this.walkAtRules(name, callback);\n }\n\n
eachComment(callback) {\n  warnOnce('Container#eachComment is deprecated.' + 'Use
Container#walkComments instead.);\n  return this.walkComments(callback);\n }\n\n get semicolon() {\n
warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n  return this.raws.semicolon;\n }\n\n set
semicolon(val) {\n  warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n
this.raws.semicolon = val;\n }\n\n get after() {\n  warnOnce('Node#after is deprecated. Use Node#raws.after');\n
return this.raws.after;\n
}\n\n set after(val) {\n  warnOnce('Node#after is deprecated. Use Node#raws.after');\n  this.raws.after = val;\n
}\n\n /**\n * @memberof Container#\n * @member {Node[]} nodes - an array containing the container's
children\n * \n * @example\n * const root = postcss.parse('a { color: black }');\n * root.nodes.length //=>
1\n * root.nodes[0].selector //=> 'a'\n * root.nodes[0].nodes[0].prop //=> 'color'\n * \n\n\nexport default
Container;\n", "// @flow\nimport Container from './container';\nimport warnOnce from './warn-once';\n\n/**\n *
Represents an at-rule.\n * \n * If it's followed in the CSS by a { } block, this node will have\n * a nodes property
representing its children.\n * \n * @extends Container\n * \n * @example\n * const root = postcss.parse('@charset
\'UTF-8\');\n * @media print {});\n * \n * const charset = root.first;\n * charset.type //=> 'atrule'\n * charset.nodes //=>
undefined\n * \n * const media = root.last;\n * media.nodes //=> []\n
*\n\nclass AtRule extends Container {\n  constructor(defaults) {\n    super(defaults);\n    this.type = 'atrule';\n  }\n\n
append(...children) {\n  if (!this.nodes) this.nodes = [];\n  return super.append(...children);\n }\n\n
prepend(...children) {\n  if (!this.nodes) this.nodes = [];\n  return super.prepend(...children);\n }\n\n
get afterName() {\n  warnOnce('AtRule#afterName was deprecated. Use AtRule#raws.afterName');\n  return
this.raws.afterName;\n }\n\n set afterName(val) {\n  warnOnce('AtRule#afterName was deprecated. Use
AtRule#raws.afterName');\n  this.raws.afterName = val;\n }\n\n get _params() {\n  warnOnce('AtRule#_params
was deprecated. Use AtRule#raws.params');\n  return this.raws.params;\n }\n\n set _params(val) {\n
warnOnce('AtRule#_params was deprecated. Use AtRule#raws.params');\n  this.raws.params = val;\n }\n\n /**\n
* @memberof AtRule#\n * @member {string} name - the at-rule's name immediately follows the `@\n * \n *
@example\n * const root = postcss.parse('@media print {}');\n * media.name //=> 'media'\n * const media =
root.first;\n * \n\n\n * @memberof AtRule#\n * @member {string} params - the at-rule's parameters, the
values\n * \n * that follow the at-rule's name but precede\n * \n * any { } block\n * \n *
@example\n * const root = postcss.parse('@media print, screen {}');\n * const media = root.first;\n *
media.params //=> 'print, screen'\n * \n\n\n * @memberof AtRule#\n * @member {object} raws -
Information to generate byte-to-byte equal\n * \n * node string as it was in the origin input.\n * \n *
Every parser saves its own properties,\n * \n * but the default CSS parser uses:\n * \n * * `before`: the space symbols
before the node. It also stores `*\n * \n * and `_` symbols before the declaration (IE hack).\n * \n * * `after`: the space
symbols after the last child of the node\n * \n * to
the end of the node.\n * \n * * `between`: the symbols between the property and value\n * \n * for declarations, selector
and `{` for rules, or last parameter\n * \n * and `{` for at-rules.\n * \n * * `semicolon`: contains true if the last child has\n
* \n * an (optional) semicolon.\n * \n * * `afterName`: the space between the at-rule name and its parameters.\n * \n *
PostCSS cleans at-rule parameters from comments and extra spaces,\n * \n * but it stores origin content in raws
properties.\n * \n * As such, if you don't change a declaration's value,\n * \n * PostCSS will use the raw value with
comments.\n * \n * \n * @example\n * const root = postcss.parse('@media\nprint {\n\n}')\n * root.first.first.raws

```

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//=> { before: ' ',\n * // between: ' ',\n * // afterName: '\n',\n * //
after: '\n' }\n *^}\n\n\nexport default AtRule;\n", "// @flow\n/**\n * Contains helpers for safely splitting lists of
CSS values,\n * preserving
parentheses and quotes.\n *\n * @example\n * const list = postcss.list;\n *\n * @namespace list\n *\n\nconst list =
{\n split(string, separators, last) {\n const array = [];\n let current = "";\n let split = false;\n let func = 0;\n
let quote = false;\n let escape = false;\n\n for (let i = 0; i < string.length; i++) {\n const letter = string[i];\n
if (quote) {\n if (escape) {\n escape = false;\n } else if (letter === '\\') {\n escape = true;\n }
else if (letter === quote) {\n quote = false;\n }\n } else if (letter === '"' || letter === "'") {\n quote
= letter;\n } else if (letter === '(') {\n func += 1;\n } else if (letter === ')') {\n if (func > 0) func -= 1;\n
} else if (func === 0) {\n if (separators.indexOf(letter) !== -1) split = true;\n }\n\n if (split) {\n if
(current !== ") array.push(current.trim());\n current
= ";\n split = false;\n } else {\n current += letter;\n }\n }\n\n if (last || current !== ")
array.push(current.trim());\n return array;\n },\n\n /**\n * Safely splits space-separated values (such as those for
`background`,\n * `border-radius`, and other shorthand properties).\n *\n * @param {string} string - space-
separated values\n *\n * @return {string[]} splitted values\n *\n * @example\n * postcss.list.space('1px
calc(10% + 1px)') //=> ['1px', 'calc(10% + 1px)']\n *\n\n space(string) {\n const spaces = [' ', '\n', '\t'];\n
return
list.split(string, spaces);\n },\n\n /**\n * Safely splits comma-separated values (such as those for `transition-`\n
* and `background` properties).\n *\n * @param {string} string - comma-separated values\n *\n * @return
{string[]} splitted values\n *\n * @example\n * postcss.list.comma('black, linear-gradient(white, black)')\n *
//=> ['black', 'linear-gradient(white,
black)']\n *\n\n comma(string) {\n const comma = ',';\n return list.split(string, [comma], true);\n
},\n};\n\n\nexport default list;\n", "// @flow\nimport './at-rule'; // break cyclical dependency deadlock - #87\n\nimport
Container from './container';\nimport warnOnce from './warn-once';\nimport list from './list';\n\n/**\n * Represents a
CSS rule: a selector followed by a declaration block.\n *\n * @extends Container\n *\n * @example\n * const root =
postcss.parse('a { }');\n *\n * const rule = root.first;\n *\n * rule.type //=> 'rule'\n *\n * rule.toString() //=> 'a { }'\n *\n\nclass
Rule extends Container {\n constructor(defaults) {\n super(defaults);\n this.type = 'rule';\n if (!this.nodes)
this.nodes = [];\n }\n\n /**\n * An array containing the rule's individual selectors.\n * Groups of selectors are
split at commas.\n *\n * @type {string[]}\n *\n * @example\n * const root = postcss.parse('a, b { }');\n *\n
const rule = root.first;\n *\n * rule.selector
//=> 'a, b'\n *\n\n rule.selectors //=> ['a', 'b']\n *\n\n rule.selectors = ['a', 'strong'];\n *\n\n rule.selector //=> 'a, strong'\n
*\n\n\n get selectors() {\n return list.comma(this.selector);\n }\n\n\n set selectors(values) {\n const match =
this.selector ? this.selector.match(/,\s*/) : null;\n const sep = match ? match[0] : `,$${this.raw('between',
'beforeOpen')}`;\n this.selector = values.join(sep);\n }\n\n\n get _selector() {\n warnOnce('Rule#_selector is
deprecated. Use Rule#raw.selector');\n return this.raws.selector;\n }\n\n\n set _selector(val) {\n
warnOnce('Rule#_selector is deprecated. Use Rule#raw.selector');\n this.raws.selector = val;\n }\n\n\n /**\n
* @memberof Rule#\n * @member {string} selector - the rule's full selector represented\n * as a
string\n *\n * @example\n * const root = postcss.parse('a, b { }');\n *\n * const rule = root.first;\n *\n * rule.selector
//=> 'a, b'\n *\n\n\n /**\n * @memberof
Rule#\n * @member {object} raws - Information to generate byte-to-byte equal\n * node string as
it was in the origin input.\n *\n * Every parser saves its own properties,\n * but the default CSS parser uses:\n
*\n * * `before`: the space symbols before the node. It also stores ` ` and ` _ ` symbols before the declaration
(IE hack).\n * * `after`: the space symbols after the last child of the node\n * to the end of the node.\n * *
`between`: the symbols between the property and value\n * for declarations, selector and `{` for rules, or last
parameter\n * and `{` for at-rules.\n * * `semicolon`: contains true if the last child has\n * an (optional)
semicolon.\n *\n * PostCSS cleans selectors from comments and extra spaces,\n * but it stores origin content in
raws properties.\n * As such, if you don't change a declaration's value,\n * PostCSS will use the raw value with
comments.\n *\n * @example\n * const

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root = postcss.parse('a {\n color:black\n}')\n * root.first.first.raws //=> { before: ', between: ', after: '\n' }\n
*\n}\n\nexport default Rule;\n", "// @flow\n/**\n * Represents a plugin's warning. It can be created using {@link
Node#warn}.\n *\n * @example\n * if ( decl.important ) {\n *   decl.warn(result, 'Avoid !important', { word:
'!important' });\n * }\n *\n * @class Warning {\n * /**\n * @param {string} text - warning message\n * @param
{Object} [opts] - warning options\n * @param {Node} opts.node - CSS node that caused the warning\n *
@param {string} opts.word - word in CSS source that caused the warning\n * @param {number} opts.index -
index in CSS node string that caused\n * the warning\n * @param {string} opts.plugin - name
of the plugin that created\n * this warning. {@link Result#warn} fills\n *
this property automatically.\n *
constructor(text, opts = {}) {\n /**\n * @member {string} - Type to filter warnings from\n *
{@link Result#messages}. Always equal\n * to \"warning\"\n *\n * @example\n * const
nonWarning = result.messages.filter(i => i.type !== 'warning')\n * /\n * this.type = 'warning';\n /**\n *
@param {string} - The warning message.\n *\n * @example\n * warning.text //=> 'Try to avoid
!important'\n *\n * this.text = text;\n *\n * if (opts.node && opts.node.source) {\n *   const pos =
opts.node.positionBy(opts);\n *\n * @member {number} - Line in the input file\n * with
this warning's source\n *\n * @example\n * warning.line //=> 5\n *\n * this.line = pos.line;\n
/**\n * @member {number} - Column in the input file\n * with this warning's source.\n *\n
* @example\n * warning.column //=>
6\n *\n * this.column = pos.column;\n * }\n *\n * for (const opt in opts) this[opt] = opts[opt];\n * }\n *\n /**\n *
Returns a warning position and message.\n *\n * @example\n * warning.toString() //=> 'postcss-lint:a.css:10:14:
Avoid !important'\n *\n * @return {string} warning position and message\n *\n * toString()\n *\n * if (this.node)
{\n *   return this.node.error(this.text, {\n *     plugin: this.plugin,\n *     index: this.index,\n *     word: this.word,\n
*   }).message;\n * } else if (this.plugin) {\n *   return `${this.plugin}: ${this.text}`;\n * } else {\n *   return this.text;\n
* }\n * }\n *\n /**\n * @memberof Warning#\n * @member {string} plugin - The name of the plugin that created\n
* it will fill this property automatically.\n * this warning. When you call {@link
Node#warn}\n *\n * @example\n * warning.plugin //=> 'postcss-important'\n *\n *\n /**\n * @memberof
Warning#\n
* @member {Node} node - Contains the CSS node that caused the warning.\n *\n * @example\n *
warning.node.toString() //=> 'color: white !important'\n *\n *\n\nexport default Warning;\n", "// @flow\nimport
Warning from './warning';\n\n/**\n * @typedef {object} Message\n * @property {string} type - message type\n *
@property {string} plugin - source PostCSS plugin name\n *\n\n/**\n * Provides the result of the PostCSS
transformations.\n *\n * A Result instance is returned by {@link LazyResult#then}\n * or {@link Root#toResult}
methods.\n *\n * @example\n * postcss([cssnext]).process(css).then(function (result) {\n *
console.log(result.css);\n * });\n *\n * @example\n * var result2 = postcss.parse(css).toResult();\n *\n\n * @class Result
{\n *\n * /**\n * @param {Processor} processor - processor used for this transformation.\n * @param {Root} root
- Root node after all transformations.\n * @param {processOptions} opts - options from the {@link
Processor#process}\n
* or {@link Root#toResult}\n *\n *\n * constructor(processor, root, opts) {\n /**\n *
@param {Processor} - The Processor instance used\n * for this transformation.\n *\n *
@example\n * for ( let plugin of result.processor.plugins) {\n *   if ( plugin.postcssPlugin === 'postcss-bad' )
{\n *     throw 'postcss-good is incompatible with postcss-bad';\n *   }\n *   });\n *\n * this.processor =
processor;\n *\n * /**\n * @member {Message[]} - Contains messages from plugins\n * (e.g.,
warnings or custom messages).\n * Each message should have type\n * and plugin
properties.\n *\n * @example\n * postcss.plugin('postcss-min-browser', () => {\n *   return (root, result)
=> {\n *     var browsers = detectMinBrowsersByCanIUse(root);\n *     result.messages.push({\n *       type:
'min-browser',\n
*       plugin: 'postcss-min-browser',\n *       browsers: browsers\n *     });\n *   });\n *\n *\n *\n * this.messages = [];\n *\n *\n * @member {Root} - Root node after all transformations.\n *\n * @example\n

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* root.toResult().root == root;\n *^n this.root = root;\n /**\n * @member {processOptions} - Options from
the { @link Processor#process }\n * or { @link Root#toResult } call\n * that
produced this Result instance.\n *\n * @example\n * root.toResult(opts).opts == opts;\n *^n this.opts =
opts;\n /**\n * @member {string} - A CSS string representing of { @link Result#root }.\n *\n *
@example\n * postcss.parse('a{}').toResult().css //=> \"a{}\"\n *^n this.css = undefined;\n /**\n *
@member {SourceMapGenerator} - An instance of `SourceMapGenerator`\n * class from the
`source-map`
library,\n * representing changes\n * to the { @link Result#root }
instance.\n *\n * @example\n * result.map.toJSON() //=> { version: 3, file: 'a.css', ... }\n *\n *
@example\n * if ( result.map ) {\n * fs.writeFileSync(result.opts.to + '.map', result.map.toString());\n * }\n
*^n this.map = undefined;\n }\n\n /**\n * Returns for @ { @link Result#css } content.\n *\n * @example\n *
result + " === result.css\n *\n * @return {string} string representing of { @link Result#root }\n *^n toString()
{\n return this.css;\n }\n\n /**\n * Creates an instance of { @link Warning } and adds it\n * to { @link
Result#messages }.\n *\n * @param {string} text - warning message\n * @param {Object} [opts] -
warning options\n * @param {Node} opts.node - CSS node that caused the warning\n * @param {string}
opts.word - word in CSS source that caused the warning\n
* @param {number} opts.index - index in CSS node string that caused\n * the warning\n *
@param {string} opts.plugin - name of the plugin that created\n * this warning. { @link
Result#warn } fills\n * this property automatically.\n *\n * @return {Warning} created
warning\n *^n warn(text, opts = { }) {\n if (!opts.plugin) {\n if (this.lastPlugin &&
this.lastPlugin.postcssPlugin) {\n opts.plugin = this.lastPlugin.postcssPlugin;\n }\n }\n\n const warning =
new Warning(text, opts);\n this.messages.push(warning);\n\n return warning;\n }\n\n /**\n * Returns warnings
from plugins. Filters { @link Warning } instances\n * from { @link Result#messages }.\n *\n * @example\n *
result.warnings().forEach(warn => {\n * console.warn(warn.toString());\n * });\n *\n * @return {Warning[]}
warnings from plugins\n *^n warnings() {\n return
this.messages.filter(i => i.type === 'warning');\n }\n\n /**\n * An alias for the { @link Result#css } property.\n *
Use it with syntaxes that generate non-CSS output.\n * @type {string}\n *\n * @example\n * result.css ===
result.content;\n *^n get content() {\n return this.css;\n }\n\n\nexport default Result;\n\n\"\" @flow\nimport
stringify from './stringify';\nimport warnOnce from './warn-once';\nimport Result from './result';\nimport parse from
'./parse';\n\nfunction isPromise(obj) {\n return typeof obj === 'object' && typeof obj.then ===
'function';\n }\n\n /**\n * @callback onFulfilled\n * @param {Result} result\n *^n\n /**\n * @callback onRejected\n
* @param {Error} error\n *^n\n /**\n * A Promise proxy for the result of PostCSS transformations.\n *\n * A
`LazyResult` instance is returned by { @link Processor#process }.\n *\n * @example\n * const lazy =
postcss([cssnext]).process(css);\n *\n * class LazyResult {\n constructor(processor, css, opts) {\n this.stringified
= false;\n this.processed = false;\n\n let root;\n if (typeof css === 'object' && css.type === 'root') {\n root =
css;\n } else if (css instanceof LazyResult || css instanceof Result) {\n root = css.root;\n if (css.map) {\n
if (typeof opts.map === 'undefined') opts.map = {};\n if (!opts.map.inline) opts.map.inline = false;\n
opts.map.prev = css.map;\n }\n } else {\n let parser = parse;\n if (opts.syntax) parser =
opts.syntax.parse;\n if (opts.parser) parser = opts.parser;\n if (parser.parse) parser = parser.parse;\n\n try
{\n root = parser(css, opts);\n } catch (error) {\n this.error = error;\n }\n }\n\n this.result = new
Result(processor, root, opts);\n }\n\n /**\n * Returns a { @link Processor } instance, which will be used\n * for
CSS transformations.\n * @type {Processor}\n *^n get processor() {\n return this.result.processor;\n }\n\n
/**\n * Options
from the { @link Processor#process } call.\n * @type {processOptions}\n *^n get opts() {\n return
this.result.opts;\n }\n\n /**\n * Processes input CSS through synchronous plugins, converts `Root`\n * to a CSS
string and returns { @link Result#css }.\n *\n * This property will only work with synchronous plugins.\n * If the
processor contains any asynchronous plugins\n * it will throw an error. This is why this method is only\n * for
debug purpose, you should always use { @link LazyResult#then }.\n *\n * @type {string}\n * @see Result#css\n

```

```

*\n get css() {\n  return this.stringify().css;\n }\n\n /**\n * An alias for the `css` property. Use it with
syntaxes\n * that generate non-CSS output.\n *\n * This property will only work with synchronous plugins.\n *
If the processor contains any asynchronous plugins\n * it will throw an error. This is why this method is only\n *
for debug purpose, you should always use {@link LazyResult#then}.\n
*\n * @type {string}\n * @see Result#content\n */\n get content() {\n  return this.stringify().content;\n }\n\n
/**\n * Processes input CSS through synchronous plugins\n * and returns {@link Result#map}.\n *\n * This
property will only work with synchronous plugins.\n * If the processor contains any asynchronous plugins\n * it
will throw an error. This is why this method is only\n * for debug purpose, you should always use {@link
LazyResult#then}.\n *\n * @type {SourceMapGenerator}\n * @see Result#map\n */\n get map() {\n  return
this.stringify().map;\n }\n\n /**\n * Processes input CSS through synchronous plugins\n * and returns {@link
Result#root}.\n *\n * This property will only work with synchronous plugins. If the processor\n * contains any
asynchronous plugins it will throw an error.\n *\n * This is why this method is only for debug purpose,\n * you
should always use {@link LazyResult#then}.\n *\n * @type {Root}\n * @see
Result#root\n */\n get root() {\n  return this.sync().root;\n }\n\n /**\n * Processes input CSS through
synchronous plugins\n * and returns {@link Result#messages}.\n *\n * This property will only work with
synchronous plugins. If the processor\n * contains any asynchronous plugins it will throw an error.\n *\n * This
is why this method is only for debug purpose,\n * you should always use {@link LazyResult#then}.\n *\n *
@type {Message[]}\n * @see Result#messages\n */\n get messages() {\n  return this.sync().messages;\n }\n\n
/**\n * Processes input CSS through synchronous plugins\n * and calls {@link Result#warnings}.\n *\n *
@return {Warning[]} warnings from plugins\n */\n warnings() {\n  return this.sync().warnings();\n }\n\n /**\n
* Alias for the {@link LazyResult#css} property.\n *\n * @example\n * lazy + " === lazy.css;\n *\n *
@return {string} output CSS\n */\n toString() {\n  return this.css;\n }\n\n /**\n
* Processes input CSS through synchronous and asynchronous plugins\n * and calls `onFulfilled` with a Result
instance. If a plugin throws\n * an error, the `onRejected` callback will be executed.\n *\n * It implements
standard Promise API.\n *\n * @param {onFulfilled} onFulfilled - callback will be executed\n *
when all plugins will finish work\n * @param {onRejected} onRejected - callback will be executed on any
error\n *\n * @return {Promise} Promise API to make queue\n *\n * @example\n *
postcss([cssnext]).process(css).then(result => {\n *   console.log(result.css);\n * });\n */\n then(onFulfilled,
onRejected) {\n  return this.async().then(onFulfilled, onRejected);\n }\n\n /**\n * Processes input CSS through
synchronous and asynchronous plugins\n * and calls onRejected for each error thrown in any plugin.\n *\n * It
implements standard Promise API.\n *\n * @param {onRejected} onRejected - callback
will be executed on any error\n *\n * @return {Promise} Promise API to make queue\n *\n * @example\n *
postcss([cssnext]).process(css).then(result => {\n *   console.log(result.css);\n * }).catch(error => {\n *
  console.error(error);\n * });\n */\n catch(onRejected) {\n  return this.async().catch(onRejected);\n }\n\n
handleError(error, plugin) {\n  try {\n    this.error = error;\n    if (error.name === 'CssSyntaxError' &&
!error.plugin) {\n      error.plugin = plugin.postcssPlugin;\n      error.setMessage();\n    } else if
(plugin.postcssVersion) {\n      const pluginName = plugin.postcssPlugin;\n      const pluginVer =
plugin.postcssVersion;\n      const runtimeVer = this.result.processor.version;\n      const a = pluginVer.split('.');\n      const b = runtimeVer.split('.');\n      if (a[0] !== b[0] || parseInt(a[1]) > parseInt(b[1])) {\n        warnOnce(\n
        `${'Your current PostCSS version ' + 'is '}${runtimeVer},\n
        but ${pluginName} ` +\n          `uses ${pluginVer}. Perhaps this is ` +\n          `the source of the error
below.`\n        );\n      }\n    }\n  } catch (err) {\n    if (console && console.error) console.error(err);\n  }\n
}\n\n asyncTick(resolve, reject) {\n  if (this.plugin >= this.processor.plugins.length) {\n    this.processed = true;\n
return resolve();\n  }\n  try {\n    const plugin = this.processor.plugins[this.plugin];\n    const promise =
this.run(plugin);\n    this.plugin += 1;\n    if (isPromise(promise)) {\n      promise\n        .then(() => {\n
this.asyncTick(resolve, reject);\n        })\n        .catch(error => {\n          this.handleError(error, plugin);\n
this.processed = true;\n          reject(error);\n        });\n    } else {\n      this.asyncTick(resolve, reject);\n    }
} catch (error) {\n  this.processed = true;\n  reject(error);\n }\n }\n\n async() {\n

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    if (this.processed) {\n      return new Promise((resolve, reject) => {\n        if (this.error) {\n          reject(this.error);\n        } else {\n          resolve(this.stringify());\n        }\n      });\n    }\n    if (this.processing) {\n      return this.processing;\n    }\n    this.processing = new Promise((resolve, reject) => {\n      if (this.error) return\n      reject(this.error);\n      this.plugin = 0;\n      this.asyncTick(resolve, reject);\n    }).then(() => {\n      this.processed =\n      true;\n      return this.stringify();\n    });\n    return this.processing;\n  }\n  sync() {\n    if (this.processed) return\n    this.result;\n    this.processed = true;\n    if (this.processing) {\n      throw new Error('Use process(css).then(cb) to\n      work with async plugins');\n    }\n    if (this.error) throw this.error;\n\n    this.result.processor.plugins.forEach(plugin => {\n      const promise = this.run(plugin);\n      if (isPromise(promise))\n        {\n          throw new Error('Use process(css).then(cb)\n          to work with async plugins');\n        }\n    });\n    return this.result;\n  }\n  run(plugin) {\n    this.result.lastPlugin =\n    plugin;\n    try {\n      return plugin(this.result.root, this.result);\n    } catch (error) {\n      this.handleError(error,\n      plugin);\n      throw error;\n    }\n  }\n  stringify() {\n    if (this.stringified) return this.result;\n    this.stringified =\n    true;\n    this.sync();\n    const opts = this.result.opts;\n    let str = stringify;\n    if (opts.syntax) str =\n    opts.syntax.stringify;\n    if (opts.stringifier) str = opts.stringifier;\n    if (str.stringify) str = str.stringify;\n    let\n    result = '';\n    str(this.root, i => {\n      result += i;\n    });\n    this.result.css = result;\n    return this.result;\n  }\n}\n\nexport default LazyResult;\n", "// @flow\nimport LazyResult from './lazy-result';\n\n/**\n * @callback\n builder\n * @param {string} part      - part of generated CSS connected to this node\n * @param {Node}\n node      - AST node\n * @param {"start"|"end"} [type] - node's part type\n * ^\n\n/**\n * @callback parser\n * ^\n\n * @param {string|toString} css - string with input CSS or any object\n *                               with toString()\n method, like a Buffer\n * @param {processOptions} [opts] - options with only `from` and `map` keys\n * ^\n\n * @return {Root} PostCSS AST\n * ^\n\n/**\n * @callback stringifier\n * ^\n\n * @param {Node} node      - start node\n for stringifying. Usually { @link Root }.\n * @param {builder} builder - function to concatenate CSS from node's\n parts\n *                               or generate string and source map\n * ^\n\n * @return {void}\n * ^\n\n/**\n * @typedef\n {object} syntax\n * @property {parser} parse      - function to generate AST by string\n * @property {stringifier} stringifier - function to generate string by AST\n * ^\n\n/**\n * @typedef {object} toString\n * @property {function}\n toString\n * ^\n\n/**\n * @callback pluginFunction\n * ^\n\n * @param {Root} root\n * ^\n\n * @param {Result} result - result to set warnings or check other plugins\n * ^\n\n/**\n * @typedef {object} Plugin\n * @property {function} postcss - PostCSS plugin function\n * ^\n\n/**\n * @typedef {object} processOptions\n * @property {string} from      - the path of the CSS source file.\n *                               You should always set `from`,\n *                               because it is used in source map\n *                               generation and syntax error messages.\n * @property {string} to      - the path where you'll put the\n output\n *                               CSS file. You should always set `to`\n *                               to generate\n correct source maps.\n * @property {parser} parser      - function to generate AST by string\n * @property\n {stringifier} stringifier - class to generate string by AST\n * @property\n {syntax} syntax      - object with `parse`\n and `stringify`\n * @property\n {object} map      - source map options\n * @property\n {boolean} map.inline      - does\n source map should\n *                               be embedded in the output\n *                               CSS as a base64-encoded\n *                               comment\n * @property\n {string|object|false|function} map.prev - source map content\n *                               from a previous\n *                               processing step\n *                               (for example, Sass).\n *                               PostCSS will try to find\n *                               previous map\n *                               automatically, so you\n *                               could disable it by\n *                               `false` value.\n * @property\n {boolean} map.sourcesContent      - does PostCSS should set\n *                               the origin content to map\n * @property\n {string|false} map.annotation      -\n does PostCSS should set\n *                               annotation comment to map\n * @property\n {string}\n map.from      - override `from` in map's\n *                               `sources`\n * ^\n\n/**\n * Contains plugins to process CSS. Create one `Processor` instance,\n * initialize its plugins, and then use that\n instance on numerous CSS files.\n * ^\n\n * @example\n * const processor = postcss([autoprefixer, precss]);\n *

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});\n * const root2 = postcss.parse(css2, { from: 'b.css' });\n * root1.append(root2);\n * const result =
root1.toResult({ to: 'all.css', map: true });\n * ^\n toResult(opts = {}) {\n const lazy = new LazyResult(new
Processor(), this, opts);\n return lazy.stringify();\n }\n\n remove(child) {\n warnOnce('Root#remove is
deprecated. Use Root#removeChild');\n this.removeChild(child);\n }\n\n prevMap() {\n
warnOnce('Root#prevMap is deprecated. Use Root#source.input.map');\n return this.source.input.map;\n }\n\n
/**\n * @memberof Root#\n * @member {object} raws - Information to generate byte-to-byte equal\n *
node string as it was in the origin input.\n * ^\n * Every parser saves its own properties,\n * but the default
CSS parser uses:\n * ^\n * `after`: the space symbols after the last child to the end of file.\n * ^\n * `semicolon`: is
the last child has an (optional) semicolon.\n * ^\n * @example\n * postcss.parse('a
{ }\n').raws //=> { after: '\n' }\n * postcss.parse('a { }').raws //=> { after: " }\n * ^\n }\n\nexport default
Root;\n", "/* @flow\nimport './root';\n// break cyclical dependency deadlock - #87\n\nimport CssSyntaxError from
 './css-syntax-error';\n// import PreviousMap from './previous-map';\n\nlet sequence = 0;\n\n**\n * @typedef
{object} filePosition\n * @property {string} file - path to file\n * @property {number} line - source line in file\n
 * @property {number} column - source column in file\n * ^\n\n**\n * Represents the source CSS.\n * ^\n *
@example\n * const root = postcss.parse(css, { from: file });\n * const input = root.source.input;\n * ^\n\nclass Input
{\n /**\n * @param {string} css - input CSS source\n * @param {object} [opts] - { @link Processor#process }
options\n * ^\n constructor(css, opts = {}) {\n /**\n * @member {string} - input CSS source\n * ^\n *
@example\n * const input = postcss.parse('a{ }', { from: file }).input;\n *
input.css //=> 'a{ }';\n * ^\n this.css = css.toString();\n\n if (this.css[0] === '\uFEFF' || this.css[0] ===
'\uFFFE') {\n this.css = this.css.slice(1);\n }\n\n if (opts.from) {\n if (/^\w+:\w+\/.test(opts.from)) {\n
/**\n * @member {string} - The absolute path to the CSS source file\n * ^\n defined with the
`from` option.\n * ^\n * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n *
root.source.input.file //=> '/home/ai/a.css'\n * ^\n this.file = opts.from;\n } else {\n this.file =
path.resolve(opts.from);\n }\n }\n\n /**\n let map = new PreviousMap(this.css, opts);\n if ( map.text )
{\n /**\n * @member {PreviousMap} - The input source map passed from\n * ^\n a compilation step before PostCSS\n *
(for example, from Sass compiler).\n * ^\n * @example\n * root.source.input.map.consumer().sources //=> ['a.sass']\n * ^\n
this.map = map;\n let file = map.consumer().file;\n if ( !this.file && file ) this.file =
this.mapResolve(file);\n }\n\n if (!this.file) {\n sequence += 1;\n /**\n * @member {string} -
The unique ID of the CSS source. It will be\n * ^\n created if `from` option is not provided\n *
(because PostCSS does not know the file path).\n * ^\n * @example\n * const root =
postcss.parse(css);\n * root.source.input.file //=> undefined\n * root.source.input.id //=> '<input css 1>'\n
 * ^\n this.id = `<input css ${sequence}>`;\n }\n if (this.map) this.map.file = this.from;\n }\n\n
error(message, line, column, opts = {}) {\n let result;\n const origin = this.origin(line, column);\n if (origin) {\n
result
= new CssSyntaxError(\n message,\n origin.line,\n origin.column,\n origin.source,\n
origin.file,\n opts.plugin\n );\n } else {\n result = new CssSyntaxError(message, line, column, this.css,
this.file, opts.plugin);\n }\n\n result.input = { line, column, source: this.css };
if (this.file) result.input.file =
this.file;\n\n return result;\n }\n\n /**\n * Reads the input source map and returns a symbol position\n * in the
input source (e.g., in a Sass file that was compiled\n * to CSS before being passed to PostCSS).\n * ^\n * @param
{number} line - line in input CSS\n * @param {number} column - column in input CSS\n * ^\n * @return
{filePosition} position in input source\n * ^\n * @example\n * root.source.input.origin(1, 1) //=> { file: 'a.css',
line: 3, column: 1 }\n * ^\n origin(line, column) {\n if (!this.map) return false;\n const consumer =
this.map.consumer();\n const from =
consumer.originalPositionFor({ line, column });\n if (!from.source) return false;\n\n const result = {\n file:
this.mapResolve(from.source),\n line: from.line,\n column: from.column,\n };
\n\n const source =
consumer.sourceContentFor(from.source);\n if (source) result.source = source;\n\n return result;\n }\n\n
mapResolve(file) {\n if (/^\w+:\w+\/.test(file)) {\n return file;\n } else {\n return

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path.resolve(this.map.consumer().sourceRoot || '.', file);\n  }\n }\n\n /**\n * The CSS source identifier. Contains
{@link Input#file} if the user\n * set the `from` option, or {@link Input#id} if they did not.\n * @type {string}\n
*\n * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n * root.source.input.from //=>
"/home/ai/a.css"\n *\n * const root = postcss.parse(css);\n * root.source.input.from //=> "<input css 1>"\n
*\n get from() {\n  return this.file || this.id;\n }\n }\n\n\nexport default
Input;\n", "// @flow\nimport tokenize from './postcss/tokenize';\nimport Comment from
'./postcss/comment';\nimport Parser from './postcss/parser';\n\nexport default class SafeParser extends Parser {\n
tokenize() {\n  this.tokens = tokenize(this.input, { ignoreErrors: true });\n }\n\n comment(token) {\n  const node
= new Comment();\n  this.init(node, token[2], token[3]);\n  node.source.end = { line: token[4], column: token[5]
};\n\n  let text = token[1].slice(2);\n  if (text.slice(-2) === '*/') text = text.slice(0, -2);\n\n  if (/^\s*$/ .test(text))
{\n    node.text = "";\n    node.raws.left = text;\n    node.raws.right = "";\n  } else {\n    const match =
text.match(/^(\\s*)([^\s]*[^\s])(\\s*)$/);\n    node.text = match[2];\n    node.raws.left = match[1];\n
node.raws.right = match[3];\n  }\n }\n\n unclosedBracket() {\n }\n\n unknownWord(start) {\n  const buffer =
this.tokens.slice(start, this.pos + 1);\n  this.spaces += buffer.map(i => i[1]).join("");\n
}\n\n unexpectedClose() {\n  this.current.raws.after += ' ';\n }\n\n doubleColon() {\n }\n\n unnamedAtrule(node)
{\n  node.name = "";\n }\n\n precheckMissedSemicolon(tokens) {\n  const colon = this.colon(tokens);\n  if
(colon === false) return;\n\n  let split;\n  for (split = colon - 1; split >= 0; split--) {\n    if (tokens[split][0] ===
'word') break;\n  }\n  for (split = 1; split >= 0; split--) {\n    if (tokens[split][0] !== 'space') {\n      split += 1;\n
break;\n    }\n  }\n  const other = tokens.splice(split, tokens.length - split);\n  this.decl(other);\n }\n\n
checkMissedSemicolon() {\n }\n\n endFile() {\n  if (this.current.nodes && this.current.nodes.length) {\n
this.current.raws.semicolon = this.semicolon;\n  }\n  this.current.raws.after = (this.current.raws.after || "") +
this.spaces;\n\n  while (this.current.parent) {\n    this.current = this.current.parent;\n    this.current.raws.after =
"";\n  }\n
}\n }\n\n", "// @flow\nimport Input from './postcss/input';\nimport SafeParser from './safe-parser';\n\nexport default
function safeParse(css, opts) {\n  const input = new Input(css, opts);\n  const parser = new SafeParser(input);\n
parser.tokenize();\n  parser.loop();\n  return parser.root;\n }\n", "// @flow\n/* eslint-disable import/no-unresolved
*\nimport transformDeclPairs from 'css-to-react-native';\nimport generateComponentId from
'./utils/generateComponentId';\nimport type { RuleSet, StyleSheet } from './types';\nimport flatten from
'./utils/flatten';\n// $FlowFixMe\nimport parse from './vendor/postcss-safe-parser/parse';\n\nlet generated =
{};\n\nexport const resetStyleCache = () => {\n  generated = {};\n};\n\n/*\nInlineStyle takes arbitrary CSS and
generates a flat object\n*\nexport default (styleSheet: StyleSheet) => {\n  class InlineStyle {\n    rules: RuleSet;\n
constructor(rules: RuleSet) {\n    this.rules = rules;\n  }\n\n  generateStyleObject(executionContext:
Object) {\n    const flatCSS = flatten(this.rules, executionContext).join("");\n\n    const hash =
generateComponentId(flatCSS);\n    if (!generated[hash]) {\n      const root = parse(flatCSS);\n      const
declPairs = [];\n      root.each(node => {\n        if (node.type === 'decl') {\n          declPairs.push([node.prop,
node.value]);\n        } else if (process.env.NODE_ENV !== 'production' && node.type !== 'comment') {\n
/* eslint-disable no-console *\n          console.warn(`Node of type ${node.type} not supported as an inline
style`);\n        }\n      });\n      // RN currently does not support differing values for the corner radii of Image\n
// components (but does for View). It is almost impossible to tell whether we'll have\n      // support, so we'll just
disable multiple values here.\n      // https://github.com/styled-components/css-to-react-native/issues/11\n      const
styleObject = transformDeclPairs(declPairs,\n        [\n          'borderRadius',\n          'borderWidth',\n          'borderColor',\n          'borderStyle',\n        ]);\n      const
styles = styleSheet.create({\n        generated: styleObject,\n      });\n      generated[hash] = styles.generated;\n
}\n\n  return generated[hash];\n }\n }\n\n return InlineStyle;\n }\n", /* eslint-disable */\n\n\nmixin-deep;\n
https://github.com/jonschlinkert/mixin-deep\n\nInlined such that it will be consistently transpiled to an IE-
compatible syntax.\n\nThe MIT License (MIT)\n\nCopyright (c) 2014-present, Jon Schlinkert.\n\nPermission is
hereby granted, free of charge, to any person obtaining a copy\nof this software and associated documentation files
(the "Software"), to deal\nin the Software without restriction, including without limitation the rights\n to use,

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to do so, subject to the following conditions:\n\n The above copyright notice and this permission notice shall be included in\n all copies or substantial portions of the Software.\n\n THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,\n OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN\n THE SOFTWARE.\n\n\*/\n\nconst isObject = val => {\n return (\n typeof\n val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val))\n );\n};\n\nconst isValidKey = key => {\n return key !== '\_\_proto\_\_' && key !== 'constructor' && key !== 'prototype';\n};\n\nfunction mixin(target, val, key) {\n const obj = target[key];\n\n if (isObject(val) && isObject(obj)) {\n mixinDeep(obj, val);\n } else {\n target[key] = val;\n }\n}\n\nexport default function mixinDeep(target, ...rest) {\n for (const obj of rest) {\n if (isObject(obj)) {\n for (const key in obj) {\n if (isValidKey(key)) {\n mixin(target, obj[key], key);\n }\n }\n }\n }\n return target;\n}\n\n\"/\" @flow\nimport { EMPTY\_OBJECT } from './empties';\n\nexport type Props = {\n theme?: any,\n};\n\nexport default (props: Props, providedTheme: any, defaultProps: any = EMPTY\_OBJECT) => {\n return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;\n};\n\n\"/\" @flow\nimport type { IStyledComponent } from './types';\n\nexport default function isTag(target: \$PropertyType<IStyledComponent, 'target'>): boolean %checks {\n return (\n typeof target === 'string' &&\n (process.env.NODE\_ENV !== 'production'\n ? target.charAt(0) === target.charAt(0).toLowerCase()\n : true)\n );\n};\n\n\"/\" @flow\nimport type { IStyledComponent } from './types';\nimport getComponentName from './getComponentName';\nimport isTag from './isTag';\n\nexport default function generateDisplayName(\n target: \$PropertyType<IStyledComponent, 'target'>): string {\n return isTag(target) ? `styled.\${target}` : `Styled(\${getComponentName(target)})`;\n};\n\n\"/\" @flow\nimport React, { useContext, useMemo, type Element, type Context } from 'react';\nimport throwStyledError from './utils/error';\nimport isFunction from './utils/isFunction';\n\nexport type Theme = { [key: string]: mixed };\n\nexport type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);\n\nexport type Props = {\n children?: Element<any>,\n theme: ThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void> = React.createContext();\n\nexport const ThemeConsumer = ThemeContext.Consumer;\n\nfunction mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {\n if (!theme) {\n return throwStyledError(14);\n }\n\n if (isFunction(theme)) {\n const mergedTheme = theme(outerTheme);\n\n if (\n process.env.NODE\_ENV !== 'production' &&\n (mergedTheme === null || Array.isArray(mergedTheme) ||\n typeof mergedTheme !== 'object')\n ) {\n return throwStyledError(7);\n }\n\n return mergedTheme;\n }\n\n if (Array.isArray(theme) || typeof theme !== 'object') {\n return throwStyledError(8);\n }\n\n return outerTheme ? { ...outerTheme, ...theme } : theme;\n}\n\n/\*\*\n \* Provide a theme to an entire react component tree via context\n \*/\n\nexport default function ThemeProvider(props: Props) {\n const outerTheme = useContext(ThemeContext);\n const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [\n props.theme,\n outerTheme,\n ]);\n\n if (!props.children) {\n return null;\n }\n\n return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;\n}\n\n\"/\" @flow\nimport React, { createElement, Component } from 'react';\nimport hoist from 'hoist-non-react-statics';\nimport merge from './utils/mixinDeep';\nimport determineTheme from './utils/determineTheme';\nimport { EMPTY\_ARRAY, EMPTY\_OBJECT } from './utils/empties';\nimport generateDisplayName from './utils/generateDisplayName';\nimport isFunction from './utils/isFunction';\nimport isTag from './utils/isTag';\nimport isStyledComponent from './utils/isStyledComponent';\nimport { ThemeConsumer } from './ThemeProvider';\n\nexport type { Theme } from './ThemeProvider';\n\nexport type { Attrs, RuleSet, Target } from './types';\n\n// NOTE: no hooks available for react-

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native yet;\n// if the user makes use of ThemeProvider or StyleSheetManager things will break.\n\n// Validator
defaults to true if not in HTML/DOM env\nconst validAttr = () => true;\n\nclass StyledNativeComponent extends
Component<*, *> {\n  root: ?Object;\n  attrs = {};\n  render() {\n    return (\n      <ThemeConsumer>\n      {\n        (theme?: Theme) => {\n          const {\n            $as: transientAsProp,\n            as: renderAs,\n            forwardedComponent,\n            forwardedAs,\n            forwardedRef,\n            testID,\n            style = [],\n            ...props\n          } = this.props;\n          const {\n            defaultProps, target, shouldForwardProp } = forwardedComponent;\n            const elementToBeRendered =\n            this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;\n            const generatedStyles =\n            this.generateAndInjectStyles(\n              determineTheme(this.props, theme, defaultProps) || EMPTY_OBJECT,\n              this.props\n            );\n            const isTargetTag = isTag(elementToBeRendered);\n            const computedProps =\n            this.attrs !== props ? { ...props, ...this.attrs } : props;\n            const propFilterFn = shouldForwardProp || (isTargetTag\n            && validAttr);\n            const propsForElement = {};\n            let key;\n            for (key in computedProps) {\n              if (key[0] ===\n                '$' || key === 'as') continue;\n                else if (key === 'forwardedAs') {\n                  propsForElement.as =\n                  props[key];\n                } else if (!propFilterFn || propFilterFn(key, validAttr)) {\n                  // Don't pass through filtered\n                  tags through to native elements\n                  propsForElement[key] = computedProps[key];\n                }\n                }\n                propsForElement.style = typeof style === 'function' ?\n                (state) => {\n                  return\n                  [generatedStyles].concat(style(state))\n                } : [generatedStyles].concat(style);\n                propsForElement.testID = testID || propsForElement.testID;\n                if (forwardedRef) propsForElement.ref =\n                forwardedRef;\n                if (forwardedAs) propsForElement.as = forwardedAs;\n                return\n                createElement(elementToBeRendered, propsForElement);\n                }\n                </ThemeConsumer>\n            );\n          }\n          buildExecutionContext(theme: ?Object, props: Object, attrs: Attrs) {\n            const context = { ...props,\n              theme };\n            if (!attrs.length) return context;\n            this.attrs = {};\n            attrs.forEach(attrDef => {\n              let\n              resolvedAttrDef = attrDef;\n              let attr;\n              let key;\n              if (isFunction(resolvedAttrDef)) {\n                resolvedAttrDef = resolvedAttrDef(context);\n              }\n              /* eslint-disable guard-for-in */\n              for (key in\n                resolvedAttrDef) {\n                  attr = resolvedAttrDef[key];\n                  this.attrs[key] = attr;\n                  context[key] = attr;\n                }\n                /* eslint-enable */\n              });\n              return context;\n            }\n            generateAndInjectStyles(theme: any, props: any) {\n              const { inlineStyle } = props.forwardedComponent;\n              const executionContext = this.buildExecutionContext(\n                theme,\n                props,\n                props.forwardedComponent.attrs\n              );\n              return\n              inlineStyle.generateStyleObject(executionContext);\n            }\n            setNativeProps(nativeProps: Object) {\n              if (this.root\n                !== undefined) {\n                // $FlowFixMe\n                this.root.setNativeProps(nativeProps);\n              } else if (process.env.NODE_ENV !== 'production') {\n                // eslint-disable-next-line no-console\n                console.warn(\n                  'setNativeProps was called on a Styled Component wrapping a stateless functional\n                  component.\n                ');\n              }\n            }\n            export default (InlineStyle: Function) => {\n              const\n              createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {\n                const {\n                  attrs =\n                  EMPTY_ARRAY,\n                  displayName = generateDisplayName(target),\n                  ParentComponent =\n                  StyledNativeComponent,\n                } = options;\n                const isClass = !isTag(target);\n                const isTargetStyledComp =\n                isStyledComponent(target);\n                // $FlowFixMe\n                const WrappedStyledNativeComponent =\n                React.forwardRef((props, ref) => (\n                  <ParentComponent\n                    {...props}\n                    forwardedComponent={\n                      WrappedStyledNativeComponent\n                    }\n                    forwardedRef={ref}\n                  />\n                ));\n                const\n                finalAttrs =\n                // $FlowFixMe\n                isTargetStyledComp && target.attrs\n                ?\n                Array.prototype.concat(target.attrs,\n                  attrs).filter(Boolean)\n                : attrs;\n                // eslint-disable-next-line prefer-destructuring\n                let shouldForwardProp =\n                options.shouldForwardProp;\n                // $FlowFixMe\n                if (isTargetStyledComp && target.shouldForwardProp) {\n                  if (shouldForwardProp) {\n                    // compose nested shouldForwardProp calls\n                    shouldForwardProp = (prop,\n                      filterFn, elementToBeCreated) =>\n                      // $FlowFixMe\n                      target.shouldForwardProp(prop, filterFn,\n                        elementToBeCreated) &&\n                      options.shouldForwardProp(prop, filterFn, elementToBeCreated);\n                  } else {\n                    // eslint-disable-next-line prefer-destructuring\n                    shouldForwardProp = target.shouldForwardProp;\n                  }\n                }\n              }\n            }\n          }\n        }\n      }\n    );\n  }\n}

```

```

}
}

/**
 * forwardRef creates a new interim component, which we'll take advantage of
 * instead of extending ParentComponent to create _another_ interim class
 */
export default function (FlowFixMe) {
  WrappedStyledNativeComponent.attrs = finalAttrs;

  WrappedStyledNativeComponent.displayName = displayName;

  WrappedStyledNativeComponent.shouldForwardProp = shouldForwardProp;

  WrappedStyledNativeComponent.inlineStyle = new InlineStyle(
    isTargetStyledComp ?
    target.inlineStyle.rules.concat(rules) : rules
  );

  WrappedStyledNativeComponent.styledComponentId = 'StyledNativeComponent';

  WrappedStyledNativeComponent.target = isTargetStyledComp ?
  target.target :
  target;

  WrappedStyledNativeComponent.withComponent = function withComponent(
    tag: Target, {
      displayName: _,
      componentId: __,
      ...optionsToCopy } = options,
      const newOptions = {
        ...optionsToCopy,
        attrs: finalAttrs,
        ParentComponent,
      };
      return
      createStyledNativeComponent(tag, newOptions, rules);
    };

  Object.defineProperty(WrappedStyledNativeComponent,
    'defaultProps', {
      get() {
        return this._foldedDefaultProps;
      },
      set(obj) {
        //
        this._foldedDefaultProps = isTargetStyledComp ?
        merge({}, target.defaultProps, obj) : obj;
      },
    });

  if (isClass) {
    hoist(WrappedStyledNativeComponent, (target: any), {
      // all SC-specific things should not
      // be hoisted
      attrs: true,
      displayName: true,
      shouldForwardProp: true,
      inlineStyle: true,
      styledComponentId: true,
      target: true,
      withComponent: true,
    });
  }

  return createStyledNativeComponent;
}

export type {
  Interpolation } from './types';
export default {
  strings: Array<string>,
  interpolations:
  Array<Interpolation>): Array<Interpolation> => {
    const result = [strings[0]];
    for (let i = 0, len =
    interpolations.length;
    i < len; i += 1) {
      result.push(interpolations[i], strings[i + 1]);
    }
    return result;
  };
}

export {
  interleave } from './utils/interleave';
export {
  isPlainObject } from './utils/isPlainObject';
export {
  EMPTY_ARRAY } from './utils/empties';
export {
  isFunction } from './utils/isFunction';
export {
  flatten } from './utils/flatten';
export type {
  Interpolation, RuleSet, Styles } from './types';

/**
 * Used when flattening object styles to determine if
 * we should
 * expand an array of styles.
 */
const addTag = arg => {
  if (Array.isArray(arg)) {
    // eslint-
    disable-next-line no-param-reassign
    arg.isCss = true;
  }
  return arg;
};

export default function css(
  styles: Styles, ...interpolations: Array<Interpolation>): RuleSet {
  if (isFunction(styles) || isPlainObject(styles)) {
    //
    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));
  }
  if
  (interpolations.length === 0 && styles.length === 1 &&
  typeof styles[0] === 'string') {
    //
    return styles;
  }
  //
  return
  addTag(flatten(interleave(styles, interpolations)));
}

export {
  isValidElementType } from 'react-
is';
export {
  css } from './css';
export {
  throwStyledError } from './utils/error';
export {
  EMPTY_OBJECT } from './utils/empties';
export type {
  Target } from './types';

export default function constructWithOptions(
  componentConstructor: Function,
  tag: Target,
  options: Object = EMPTY_OBJECT) {
  if
  (!isValidElementType(tag)) {
    return throwStyledError(1, String(tag));
  }

  /**
   * This is callable directly as a
   * template function
   */
  //
  const templateFunction =
  (...args) => componentConstructor(tag, options, css(...args));

  /**
   * If config methods are called, wrap up a new
   * template function and merge options
   */
  templateFunction.withConfig = config =>
  constructWithOptions(componentConstructor,
  tag, {
    ...options,
    ...config
  });

  /**
   * Modify/inject new props at runtime
   */
  templateFunction.attrs = attrs =>
  constructWithOptions(componentConstructor, tag, {
    ...options,
    attrs: Array.prototype.concat(options.attrs,
    attrs).filter(Boolean),
  });

  return templateFunction;
}

export {
  useContext, type
  AbstractComponent } from 'react';
export {
  hoistStatics } from 'hoist-non-react-statics';
export {
  ThemeContext } from './models/ThemeProvider';
export {
  determineTheme } from './utils/determineTheme';
export {
  getComponentName } from './utils/getComponentName';

// NOTE: this would be the correct signature:
export

```

default <Config: { theme?: any }, Instance>\n// Component: AbstractComponent<Config, Instance>\n//):  
 AbstractComponent<\${Diff}<Config, { theme?: any }> & { theme?: any }, Instance>\n/\n// but the old build system  
 tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<\*, \*>) => {\n //  
 \$FlowFixMe

```
This should be React.forwardRef<Config, Instance>\n const WithTheme = React.forwardRef((props, ref) => {\n
const theme = useContext(ThemeContext);\n // $FlowFixMe defaultProps isn't declared so it can be inferrable\n
const { defaultProps } = Component;\n const themeProp = determineTheme(props, theme, defaultProps);\n\n if
(process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n // eslint-disable-next-line no-
console\n console.warn(\n `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a
theme in defaultProps in component class \`${getComponentName(\n Component\n )}\`\n );\n }\n\n
return <Component { ...props } theme={themeProp} ref={ref} />.\n });\n\n hoistStatics(WithTheme,
Component);\n\n WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;\n\n return
WithTheme;\n};\n", "\n// @flow\nimport { useContext } from 'react';\nimport { ThemeContext } from
'./models/ThemeProvider';\n\nconst
```

```
useTheme = () => useContext(ThemeContext);\n\nexport default useTheme;\n", "\n// @flow\n\n/* eslint-disable
import/no-unresolved */\nimport reactPrimitives from 'react-primitives';\nimport _InlineStyle from
'./models/InlineStyle';\nimport _StyledNativeComponent from './models/StyledNativeComponent';\n\nimport css
from './constructors/css';\nimport constructWithOptions from './constructors/constructWithOptions';\nimport
ThemeProvider, { ThemeConsumer, ThemeContext } from './models/ThemeProvider';\nimport withTheme from
'./hoc/withTheme';\nimport useTheme from './hooks/useTheme';\nimport isStyledComponent from
'./utils/isStyledComponent';\n\nimport type { Target } from './types';\n\nconst InlineStyle =
_InlineStyle(reactPrimitives.StyleSheet);\n\nconst StyledNativeComponent =
_StyledNativeComponent(InlineStyle);\n\nconst styled = (tag: Target) =>
```

constructWithOptions(StyledNativeComponent, tag);\n\n/\* React native lazy-requires each of these modules for  
 some reason,

```
so let's\n * assume it's for a good reason and not eagerly load them all */\n\nconst aliases = 'Image Text Touchable
View';\n\n/* Define a getter for each alias which simply gets the reactNative component\n * and passes it to styled
*/\n\naliases.split(/\\s+/m).forEach(alias =>\n Object.defineProperty(styled, alias, {\n enumerable: true,\n
configurable: false,\n get() {\n return styled(reactPrimitives[alias]);\n },\n });\n);\n\nexport { css,
isStyledComponent, ThemeProvider, ThemeConsumer, ThemeContext, withTheme, useTheme };\n\nexport default
styled;\n"}, "names": ["AD_REPLACER_R", "charsLength", "getAlphabeticChar", "code", "String", "fromCharCode", "g
enerateAlphabeticName", "name", "x", "Math", "abs", "replace", "SEED", "phash", "h", "i", "length", "charCodeAt", "hash"
, "str", "getComponentName", "target", "process", "env", "NODE_ENV", "displayName", "isFunction", "test", "isStateless
Function", "prototype", "isReactComponent", "toString", "Object", "call", "typeof", "isStyledComponent", "styledComp
onentId", "SC_ATTR", "REACT_APP_SC_ATTR", "SC_ATTR_ACTIVE", "SC_ATTR_VERSION", "SC_VERSIO
N", "__VERSION__", "SPLITTER", "IS_BROWSER", "window", "DISABLE_SPEEDY", "Boolean", "SC_DISABLE_
SPEEDY", "REACT_APP_SC_DISABLE_SPEEDY", "EMPTY_ARRAY", "freeze", "EMPTY_OBJECT", "ERRORS
", "errorMap", "format", "a", "b", "c", "len", "push", "forEach", "d", "throwStyledComponentsError", "interpolations", "Erro
r", "join", "trim", "makeGroupedTag", "tag", "DefaultGroupedTag", "BASE_SIZE", "groupSizes", "Uint32Array", "index
OfGroup", "group", "index", "insertRules", "rules", "oldBuffer", "oldSize", "newSize", "throwStyledError", "set", "ruleInd
ex", "l", "insertRule", "clearGroup", "startIndex", "endIndex", "deleteRule", "getGroup", "css", "getRule", "MAX_SMI", "g
roupIDRegister", "Map", "reverseRegister", "nextFreeGroup", "getGroupForId", "id", "has", "get", "getIdForGroup", "set
GroupForId", "SELECTOR", "MARKER_RE", "RegExp", "outputSheet", "sheet", "getTag", "undefined", "names", "size
", "selector", "content", "rehydrateNamesFromContent", "split", "registerName", "rehydrateSheetFromTag", "style", "part
s", "textContent", "part", "marker", "match", "parseInt", "rehydrateSheet", "nodes", "document", "querySelectorAll", "nod
e", "getAttribute", "parentNode", "removeChild", "getNonce", "__webpack_nonce__", "ELEMENT_TYPE", "findLastSt
yleTag", "childNodes", "child", "nodeType", "hasAttribute", "makeStyleTag", "head", "parent", "createElement", "prevSt
yle", "nextSibling", "setAttribute", "nonce", "insertBefore", "getSheet", "styleSheets", "ownerNode", "makeTag", "isServe
```

r","useCSSOMInjection","VirtualTag","CSSOMTag","TextTag","element","appendChild","createTextNode","rule",  
"\_error","cssRules","cssText","refNode","\_target","splice","SHOULD\_REHYDRATE","defaultOptions","StyleShe  
et","registerId","options","globalStyles","gs","server","reconstructWithOptions","withNames","allocateGSInstance",  
,"hasNameForId","groupNames","Set","add","clearNames","clear","clearRules","clearTag","delimiter","needle","to  
Sheet","block","e","ruleSheet","context","selectors","parents","line","column","ns","depth","at","COMMENT\_REG  
EX","COMPLEX\_SELECTOR\_PREFIX","createStylisInstance","plugins","stylis","Stylis","parsingRules","returnR  
ulesPlugin","parsedRules","parseRulesPlugin","insertRulePlugin","\_componentId","\_selector","\_selectorRegexp",  
\_consecutiveSelfRefRegExp","selfReferenceReplacer","offset","string","indexOf","selfReferenceReplacementPlugi  
n","\_","lastIndexOf","use","stringifyRules","prefix","componentId","flatCSS","cssStr","reduce","acc","plugin","Sty  
leSheetContext","React","createContext","StyleSheetConsumer","Consumer","StylisContext","StylisConsumer","m  
asterSheet","masterStylis","Keyframes","inject","styleSheet","stylisInstance","resolvedName","getName","uppercas  
eCheck","uppercasePattern","msPattern","prefixAndLowerCase","char","toLowerCase","hyphenateStyleName","ad  
dUnitIfNeeded","value","unitless","startsWith","isFalsish","chunk","objToCssArray","obj","prevKey","key","hasO  
wnProperty","Array","isArray","isCss","hyphenate","isPlainObject","flatten","executionContext","ruleSet","result",  
"isElement","console","warn","printed","warnOnce","message","SINGLE\_QUOTE","DOUBLE\_QUOTE","BACK  
SLASH","SLASH","NEWLINE","SPACE","FEED","TAB","CR","OPEN\_SQUARE","CLOSE\_SQUARE","OPE  
N\_PARENTHESES","CLOSE\_PARENTHESES","OPEN\_CURLY","CLOSE\_CURLY","SEMICOLON","ASTER  
ISK","COLON","AT","RE\_AT\_END","RE\_WORD\_END","RE\_BAD\_BRACKET","tokenize","input","tokens","v  
alueOf","ignore","ignoreErrors","next","quote","lines","last","escape","nextLine","nextOffset","escaped","escapePo  
s","prev","n","pos","unclosed","what","error","slice","lastIndex","HIGHLIGHT\_THEME","brackets","comment","c  
olor","terminalHighlight","Input","token","map","CssSyntaxError","source","file","reason","setMessage","captureSt  
ackTrace","showSourceCode","supportsColor","start","max","end","min","maxWidth","number","padded","gutter",  
"spacing","defaultRaw","colon","indent","beforeDecl","beforeRule","beforeOpen","beforeClose","beforeComment",  
,"after","emptyBody","commentLeft","commentRight","capitalize","toUpperCase","Stringifier","builder","stringify",  
,"semicolon","type","root","body","raws","left","raw","right","text","decl","between","prop","rawValue","importa  
nt","atrule","params","afterName","before","own","detect","first","rawCache","beforeAfter","method","walk","raw  
Semicolon","rawEmptyBody","rawIndent","p","rawBeforeComment","walkComments","rawBeforeDecl","walkDec  
ls","rawBeforeRule","rawBeforeClose","rawBeforeOpen","rawColon","buf","step","cloneNode","cloned","construc  
tor","j","Node","defaults","opts","positionBy","data","remove","stringifier","clone","overrides","cloneBefore","clon  
eAfter","insertAfter","replaceWith","moveTo","newParent","cleanRaws","append","moveBefore","otherNode","mo  
veAfter","toJSON","fixed","defaultType","keepBetween","positionInside","word","removeSelf","cleanStyles","val",  
,"Declaration","Comment","Parser","Root","current","spaces","tokenizer","loop","emptyRule","other","endFile","in  
it","Rule","bracket","pop","unclosedBracket","unknownWord","spacesFromEnd","shift","spacesFromStart","preche  
ckMissedSemicolon","stringFrom","cache","checkMissedSemicolon","AtRule","unnamedAtrule","open","unexpect  
edClose","unclosedBlock","clean","all","lastTokenType","from","doubleColon","founded","parse","safe","parser",  
cleanSource","Container","each","callback","lastEach","indexes","walkRules","walkAtRules","children","normalize",  
,"prepend","reverse","unshift","exist","removeAll","replaceValues","pattern","props","fast","every","condition","s  
ome","sample","processed","rebuild","fix","eachInside","eachDecl","eachRule","eachAtRule","eachComment","list",  
,"separators","array","func","letter","space","comma","values","sep","Warning","opt","Result","processor","messa  
ges","lastPlugin","postcssPlugin","warning","warnings","filter","isPromise","then","LazyResult","stringified","inlin  
e","syntax","sync","onFulfilled","onRejected","async","handleError","postcssVersion","pluginName","pluginVer",  
runtimeVer","version","err","asyncTick","resolve","reject","promise","run","Promise","processing","Processor","co  
ncat","normalized","postcss","toResult","lazy","prevMap","sequence","path","origin","consumer","originalPosition  
For","mapResolve","sourceContentFor","sourceRoot","SafeParser","buffer","safeParse","generated","InlineStyle",  
generateStyleObject","generateComponentId","declPairs","styleObject","transformDeclPairs","styles","create","isO  
bject","isValidKey","mixin","mixinDeep","rest","providedTheme","defaultProps","theme","isTag","charAt","gener  
ateDisplayName","ThemeContext","ThemeConsumer","mergeTheme","outerTheme","mergedTheme","ThemeProvi  
der","useContext","themeContext","useMemo","validAttr","StyledNativeComponent","attrs","render","transientAsP



rop","\$as","renderAs","as","forwardedComponent","forwardedAs","forwardedRef","testID","shouldForwardProp","elementToBeRendered","generatedStyles","generateAndInjectStyles","determineTheme","isTargetTag","computedProps","propFilterFn","propsForElement","state","ref","buildExecutionContext","attrDef","resolvedAttrDef","attr","inlineStyle","setNativeProps","nativeProps","Component","createStyledNativeComponent","ParentComponent","isClass","isTargetStyledComp","WrappedStyledNativeComponent","forwardRef","finalAttrs","filterFn","elementToBeCreated","withComponent","\_\_","optionsToCopy","newOptions","defineProperty","\_foldedDefaultProps","merge","hoist","strings","addTag","arg","interleave","constructWithOptions","componentConstructor","isValidElementType","templateFunction","withConfig","config","WithTheme","themeProp","hoistStatics","useTheme","\_InlineStyle","reactPrimitives","\_StyledNativeComponent","styled","aliases","alias","enumerable","configurable"],"mappings":";; ;;;;;;;;;;AAAA;ACA;AEA,IAAMA,aAA,GAAG,UAAtB;AEA;AEA,IAAMC,WAAW,GAAG,EAAPB;AEA;ACA,IAAMC,iBAAiB,GAAG,SAAPBA,iBAAoB,CAACC,IAAD;AAAA,SACxBC,MAAM,CAACC,YAAP,CAAoBF,IAAI,IAAIA,IAAI,GAAG,EAAP,GAAY,EAZ,GAAiB,EAARb,CAAxB,CADwB;AAAA,CAA1B;AGA;AACe,SAASG,sBAAT,CAAgCH,IAAhC,EAAsD;AACnE,MAAI,IAAI,GAAG,EAAX;ACA,MAAIC,CAAJ;AEA;ACA,OAKA,CAAC,GAAGC,IAAI,CAACC,GAAL,CAASP,IAAT,CAAT,EAAYBK,CAAC,GAAGP,WAA7B,EAA0CO,CAAC,GAAlA,CAAC,GAAGP,WAAL,GAAoB,CAAIE,EAAqE;AACnEM,IAAAA,IAAI,GAAGL,iBAAiB,CAACM,CAAC,GAAGP,WAAL,CAAjB,GAAqCM,IAA5C;AACD;AAED,SAAO,CAACL,iBAAiB,CAACM,CAAC,GAAGP,WAAL,CAAjB,GAAqCM,IAAtC,EAA4CI,OAA5C,CAAoDX,aAAPd,EAAMe,OAAAnE,CAAP;AACD;ACxBD;ACA;AEA,AAAO,IAAMY,IAAI,GAAG,IAAb;AAGP;ACA;ACA,AAAO,IAAMC,KAAK,GAAG,SAARA,KAAQ,CAACC,CAAD,EAAYN,CAAZ,EAakC;AACrD,MAAIO,CAAC,GAAGP,CAAC,CAACQ,MAAV;AEA,SAAOD,CAAP,EAU;AACRD,IAAAA,CAAC,GAAlA,CAAC,GAAG,EAAL,GAAWN,CAAC,CAACS,UAAF,CAAa,EAAEF,CAAf,CAAf;AACD;AAED,SAAOD,CAAP;AACD,CARM;AAWP,AAAO,IAAMI,IAAI,GAAG,SAAPA,IAAO,CAACV,CAAD,EAAuB;AACzC,SAAOK,KAAK,CAACD,IAAD,EAAOJ,CAAP,CAAZ;AACD,CAFm;ACnBP;AKA,2BAAE,UACW,GAAD,EAAYB;AACtC,SAAOb,sBAAsB,CAACY,IAAI,CAACC,GAAD,CAAJ,KAAc,CAAf,CAA7B;AACD,CAFd;ACLA;AGA,AAAE,SAASC,gBAAT,CACbC,MADa,EAEL;AACR,SACE,CAACC,OAAO,CAACC,GAAR,CAAYC,QAAZ,KAAyB,YAAzB,GAAwC,OAAOH,MAAP,KAAkB,QAAIB,IAA8BA,MAAtE,GAA+E,KAAhF;AAEAA,EAAAA,MAAM,CAACI,WAFP;AAIAJ,EAAAA,MAAM,CAACd,IAJP,IAKA,WANF;AAQD;ACdD;ACA,AAAE,SAASmB,UAAAT,CAAoBC,IAAPB,EAAGd;AAC7D,SAAO,OAAOA,IAAP,KAAgB,UAAvB;AACD;ACHD;ACA,AAAE,SAASC,mBAAT,CAA6BD,IAA7B,EAAd;AAC9D,SACE,OAAOA,IAAP,KAAgB,UAAhB,IACG,EACDA,IAAI,CAACE,SAAL,IACGF,IAAI,CAACE,SAAL,CAAeC,gBAFjB,CAFL;AAOD;ACTD;ACA,AAEA,qBAAE,UAACTB,CAAD;AAAA,SACbA,CAAC,KAAK,IAAN,IACA,OAAOA,CAAP,KAAa,QADb,IAEA,CAACA,CAAC,CAACuB,QAAF,GAAvB,CAAC,CAACuB,QAAF,EAAb,GAA4BC,MAAM,CAACH,SAAP,CAAiBE,QAAjB,CAA0BE,IAA1B,CAA+BzB,CAA/B,CAA7B,MAAoE,iBAFPe,IAGA,CAAC0B,cAAM,CAAC1B,CAAD,CAJM;AAAA,CAAf;ACHA;ACA,AAAE,SAAS2B,iBAAT,CAA2Bd,MAA3B,EAAYd;AACtE,SAAOA,MAAM,IAAI,OAAOA,MAAM,CAACe,iBAAd,KAAoC,QAArD;AACD;ACHD;AKA,AAAO,IAAMC,OAAO,GACjB,OAAOf,OAAP,KAAmB,WAAAnB,IACC,OAAOA,OAAO,CAACC,GAaf,KAAuB,WADxB,KAEEED,OAAO,CAACC,GAAR,CAAYe,iBAAZ,IAAiChB,OAAO,CAACC,GAAR,CAAYc,OAF/C,CAAD,IAGA,aAJK;AAMP,AAAO,IAAME,cAAc,GAAG,QAAvB;AACP,AAAO,IAAMC,eAAe,GAAG,qBAAXB;AACP,AAAO,IAAMC,UAAU,GAAGC,QAAAnB;AACP,AAAO,IAAMC,QAAQ,GAAG,WAAjB;AAEP,AAAO,IAAMC,UAAU,GAAG,OAAOC,MAAP,KAAkB,WAAIB,IAAiC,iBAAiBA,MAArE;AAEP,AAAO,IAAMC,cAAc,GAAGC,OAAO,CACnC,OAAOC,iBAAP,KAA6B,SAA7B,GACIA,iBADJ,GAEL,OAAO1B,OAAP,KAAmB,WAAAnB,IAAkC,OAAOA,OAAO,CAACC,GAaf,KAAuB,WAAzD,GACA,OAAOD,OAAO,CAACC,GAAR,CAAY0B,2BAAnB,KAAmD,WAAAnD,IACA3B,OAAO,CAACC,GAAR,CAAY0B,2BAAZ,KAA4C,EAD5C,GAEE3B,OAAO,CAACC,GAAR,CAAY0B,2BAAZ,KAA4C,OAA5C,GACE,KADF,GAEE3B,OAAO,CAACC,GAAR,CAAY0B,2BAJhB,GAKE,OAAO3B,OAAO,CAACC,GAAR,CAAYyB,iBAAnB,KAAyC,WAAzC,IAAwD1B,OAAO,CAACC,GAAR,CAAYyB,iBAAZ,KAAkC,EAA1F,GACA1B,OAAO,CAACC,GAAR,CAAYyB,iBAAZ,KAAkC,OAAIC,GACE,KADF,GAEE1B,OAAO,CAACC,GAAR,CAAYyB,iBAHd,GAIA1B,OAAO,CAACC,GAAR,CAAYC,QAAZ,KAAyB,YAV3B,GAWA,KAd+B,CAA9B;ACIBP;ACA,AAAO,IAAM0B,WAAW,GAAGIB,MAAM,CAACmB,MAAP,CAAC,

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No license file was found, but licenses were detected in source scan.

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default (\n strings: Array<string>,\n interpolations: Array<Interpolation>\n): Array<Interpolation> => {\n const
result = [strings[0]];\n\n for (let i = 0, len = interpolations.length; i < len; i += 1) {\n result.push(interpolations[i],
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process.env.REACT_APP_SC_DISABLE_SPEEDY\n : typeof process.env.SC_DISABLE_SPEEDY
!== 'undefined' && process.env.SC_DISABLE_SPEEDY !== "\n ? process.env.SC_DISABLE_SPEEDY ===
'false'\n ? false\n : process.env.SC_DISABLE_SPEEDY\n : process.env.NODE_ENV !== 'production'\n
: false\n);\n\n\n// Shared empty execution context when generating static styles\n\nexport const
STATIC_EXECUTION_CONTEXT = {};\n", "// @flow\nimport errorMap from './errors';\n\n\nconst ERRORS =
process.env.NODE_ENV !== 'production' ? errorMap : {};\n\n\n/**\n * super basic version of sprintf\n *\nfunction
format(...args) {\n let a = args[0];\n const b = [];\n\n for (let c = 1, len = args.length; c < len; c += 1) {\n
b.push(args[c]);\n }\n\n b.forEach(d => {\n a = a.replace(/%[a-z]/, d);\n });\n\n return a;\n}\n\n\n/**\n * Create an
error file out of errors.md for development and a simple web link to the full errors\n * in production mode.\n
*\n\nexport default function throwStyledComponentsError(\n code: string | number,\n ...interpolations:
Array<any>\n)\n {\n if (process.env.NODE_ENV === 'production') {\n throw new Error(\n `An error occurred. See
https://git.io/JUIaE#\${code} for more information.`\n interpolations.length > 0 ? ` Args:
${interpolations.join(', ')}\n `);\n } else {\n throw new Error(format(ERRORS[code],
...interpolations).trim());\n }\n}\n", "// @flow\n\n/**\n * eslint-disable no-use-before-define *\n\nimport type {
GroupedTag, Tag } from './types';\n\nimport { SPLITTER } from './constants';\n\nimport throwStyledError from
'./utils/error';\n\n\n/**\n * Create a GroupedTag with an underlying Tag implementation *\n\nexport const
makeGroupedTag = (tag: Tag): GroupedTag => {\n return new DefaultGroupedTag(tag);\n};\n\n\nconst BASE_SIZE
= 1 << 9;\n\n\nclass DefaultGroupedTag implements GroupedTag {\n groupSizes: Uint32Array;\n\n length:
number;\n\n tag: Tag;\n\n constructor(tag: Tag) {\n this.groupSizes = new Uint32Array(BASE_SIZE);\n
this.length = BASE_SIZE;\n this.tag = tag;\n }\n\n\n indexOfGroup(group: number): number {\n let index = 0;\n
for (let i = 0; i < group; i++) {\n index +=
this.groupSizes[i];\n }\n\n return index;\n }\n\n\n insertRules(group: number, rules: string[]): void {\n if (group
>= this.groupSizes.length) {\n const oldBuffer = this.groupSizes;\n const oldSize = oldBuffer.length;\n\n
let newSize = oldSize;\n while (group >= newSize) {\n newSize <<= 1;\n if (newSize < 0) {\n
throwStyledError(16, `${group}`);\n }\n }\n\n this.groupSizes = new Uint32Array(newSize);\n
this.groupSizes.set(oldBuffer);\n this.length = newSize;\n\n for (let i = oldSize; i < newSize; i++) {\n

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this.groupSizes[i] = 0;\n    }\n    }\n\n    let ruleIndex = this.indexOfGroup(group + 1);\n    for (let i = 0, l =
rules.length; i < l; i++) {\n        if (this.tag.insertRule(ruleIndex, rules[i])) {\n            this.groupSizes[group]++;;\n
ruleIndex++;;\n        }\n    }\n\n    clearGroup(group:
number): void {\n        if (group < this.length) {\n            const length = this.groupSizes[group];\n            const startIndex =
this.indexOfGroup(group);\n            const endIndex = startIndex + length;\n\n            this.groupSizes[group] = 0;\n\n            for
(let i = startIndex; i < endIndex; i++) {\n                this.tag.deleteRule(startIndex);\n            }\n        }\n\n        getGroup(group:
number): string {\n            let css = ";\n            if (group >= this.length || this.groupSizes[group] === 0) {\n                return css;\n
            }\n\n            const length = this.groupSizes[group];\n            const startIndex = this.indexOfGroup(group);\n            const endIndex
= startIndex + length;\n\n            for (let i = startIndex; i < endIndex; i++) {\n                css +=
`${this.tag.getRule(i)}${SPLITTER}`;\n            }\n\n            return css;\n        }\n    }\n\n    "/ @flow\n\nimport throwError from
'./utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister: Map<string, number> = new Map();\nlet
reverseRegister: Map<number, string> = new Map();\n\nlet
nextFreeGroup = 1;\n\nexport const resetGroupIds = () => {\n    groupIDRegister = new Map();\n    reverseRegister =
new Map();\n    nextFreeGroup = 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n    if
(groupIDRegister.has(id)) {\n        return (groupIDRegister.get(id): any);\n    }\n\n    while
(reverseRegister.has(nextFreeGroup)) {\n        nextFreeGroup++;\n    }\n\n    const group = nextFreeGroup++;\n\n    if (\nprocess.env.NODE_ENV !== 'production' &&\n    ((group | 0) < 0 || group > MAX_SMI)\n    ) {\n        throwError(16, `${group}`);\n    }\n\n    groupIDRegister.set(id, group);\n    reverseRegister.set(group, id);\n
return group;\n};\n\nexport const getIdForGroup = (group: number): void | string => {\n    return
reverseRegister.get(group);\n};\n\nexport const setGroupForId = (id: string, group: number) => {\n    if (group >=
nextFreeGroup) {\n        nextFreeGroup = group + 1;\n    }\n\n    groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n};\n\n"/ @flow\n\nimport { SPLITTER,
SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport {
getIdForGroup, setGroupForId } from './GroupIDAllocator';\nimport type { Sheet } from './types';\n\nconst
SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;\n\nconst MARKER_RE =
new RegExp(`^${SC_ATTR}\\\\.g(\\\\d+)(\\\\[id=\\\\(\\\\w\\\\d-+\\\\)\\\\\\\\.\\\\*?\\\\(\\\\^\\\\*)\\\\\\\\]\\\\)`);\n\nexport const outputSheet =
(sheet: Sheet) => {\n    const tag = sheet.getTag();\n    const { length } = tag;\n\n    let css = ";\n    for (let group = 0;
group < length; group++) {\n        const id = getIdForGroup(group);\n        if (id === undefined) continue;\n\n        const
names = sheet.names.get(id);\n        const rules = tag.getGroup(group);\n        if (!names || !rules || !names.size)
continue;\n\n        const selector = `${SC_ATTR}.g${group}[id=${id}]`;\n\n        let content = ";\n        if (names !==
undefined) {\n            names.forEach(name => {\n                if (name.length > 0) {\n                    content += `${name},`;\n                }\n
            });\n        }\n\n        // NOTE: It's easier to collect rules and have the marker\n        // after the actual rules to simplify the rehydration\n
css += `${rules}${selector}{content: "${content}"}${SPLITTER}`;\n    }\n\n    return css;\n};\n\nconst
rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n    const names = content.split(',');\n
let name;\n    for (let i = 0, l = names.length; i < l; i++) {\n        // eslint-disable-next-line\n        if ((name = names[i]))\n        {\n            sheet.registerName(id, name);\n        }\n    }\n};\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:
HTMLStyleElement) => {\n    const parts = (style.textContent || "").split(SPLITTER);\n    const rules: string[] = [];\n\n    for (let i = 0, l = parts.length; i < l; i++) {\n        const part = parts[i].trim();\n        if (!part) continue;\n\n        const marker =
part.match(MARKER_RE);\n\n        if (marker) {\n            const group = parseInt(marker[1], 10) | 0;\n            const id =
marker[2];\n\n            if (group !== 0) {\n                // Rehydrate
componentId to group index mapping\n                setGroupForId(id, group);\n                // Rehydrate names and rules\n                //
looks like: data-styled.g11[id="idA"]{content:"nameA,"}\n                rehydrateNamesFromContent(sheet, id,
marker[3]);\n                sheet.getTag().insertRules(group, rules);\n            }\n\n            rules.length = 0;\n        } else {\n
rules.push(part);\n        }\n    }\n};\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n    const nodes =
document.querySelectorAll(SELECTOR);\n\n    for (let i = 0, l = nodes.length; i < l; i++) {\n        const node =
((nodes[i]: any): HTMLStyleElement);\n        if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)\n        {\n            rehydrateSheetFromTag(sheet, node);\n            if (node.parentNode) {\n

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node.parentNode.removeChild(node);\n    }\n    }\n    }\n};\n";\n// @flow\n/* eslint-disable camelcase, no-undef
*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n    return typeof __webpack_nonce__
!== 'undefined' ? __webpack_nonce__
: null;\n};\n\nexport default getNonce;\n";\n// @flow\n\nimport { SC_ATTR, SC_ATTR_ACTIVE,
SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from './utils/nonce';\nimport
throwStyledError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /* Node.ELEMENT_TYPE *\n\n/** Find
last style element if any inside target *\n\nconst findLastStyleTag = (target: HTMLElement): void |
HTMLStyleElement => {\n    const { childNodes } = target;\n\n    for (let i = childNodes.length; i >= 0; i--) {\n        const
child = ((childNodes[i]: any): ?HTMLElement);\n        if (child && child.nodeType === ELEMENT_TYPE &&
child.hasAttribute(SC_ATTR)) {\n            return ((child: any): HTMLStyleElement);\n        }\n    }\n\n    return
undefined;\n};\n\n/** Create a style element inside `target` or <head> after the last *\n\nexport const makeStyleTag =
(target?: HTMLElement): HTMLStyleElement => {\n    const head = ((document.head: any): HTMLElement);\n\n    const parent = target || head;\n    const style = document.createElement('style');\n\n    const prevStyle = findLastStyleTag(parent);\n    const nextSibling = prevStyle !== undefined ?
prevStyle.nextSibling : null;\n\n    style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n\n    style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n\n    const nonce = getNonce();\n\n    if (nonce)
style.setAttribute('nonce', nonce);\n\n    parent.insertBefore(style, nextSibling);\n\n    return style;\n};\n\n/** Get the
CSSStyleSheet instance for a given style element *\n\nexport const getSheet = (tag: HTMLStyleElement):
CSSStyleSheet => {\n    if (tag.sheet) {\n        return ((tag.sheet: any): CSSStyleSheet);\n    }\n\n    // Avoid Firefox quirk
where the style element might not have a sheet property\n    const { styleSheets } = document;\n    for (let i = 0, l =
styleSheets.length; i < l; i++) {\n        const sheet = styleSheets[i];\n        if (sheet.ownerNode === tag) {\n            return
((sheet: any): CSSStyleSheet);\n        }\n    }\n\n    throwStyledError(17);\n    return (undefined: any);\n};\n";\n// @flow\n/*
eslint-disable
no-use-before-define *\n\nimport { makeStyleTag, getSheet } from './dom';\nimport type { SheetOptions, Tag }
from './types';\n\n/** Create a CSSStyleSheet-like tag depending on the environment *\n\nexport const makeTag = ({
isServer, useCSSOMInjection, target }: SheetOptions): Tag => {\n    if (isServer) {\n        return new
VirtualTag(target);\n    } else if (useCSSOMInjection) {\n        return new CSSOMTag(target);\n    } else {\n        return
new TextTag(target);\n    }\n};\n\nexport class CSSOMTag implements Tag {\n    element: HTMLStyleElement;\n\n    sheet: CSSStyleSheet;\n\n    length: number;\n\n    constructor(target?: HTMLElement) {\n        const element =
(this.element = makeStyleTag(target));\n\n        // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode("));\n\n        this.sheet = getSheet(element);\n        this.length = 0;\n    }\n\n    insertRule(index: number, rule: string): boolean {\n        try {\n            this.sheet.insertRule(rule, index);\n\n            this.length++;\n\n            return true;\n        } catch (_error) {\n            return false;\n        }\n    }\n\n    deleteRule(index: number): void {\n        this.sheet.deleteRule(index);\n        this.length--;\n    }\n\n    getRule(index: number): string {\n        const rule =
this.sheet.cssRules[index];\n        // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n        if (rule
!== undefined && typeof rule.cssText === 'string') {\n            return rule.cssText;\n        } else {\n            return ";\n        }\n    }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes *\n\nexport class TextTag implements
Tag {\n    element: HTMLStyleElement;\n\n    nodes: NodeList<Node>;\n\n    length: number;\n\n    constructor(target?:
HTMLElement) {\n        const element = (this.element = makeStyleTag(target));\n        this.nodes =
element.childNodes;\n        this.length = 0;\n    }\n\n    insertRule(index: number, rule: string): boolean {\n        if (index <=
this.length && index >= 0) {\n            const node = document.createTextNode(rule);\n\n            const refNode = this.nodes[index];\n            this.element.insertBefore(node, refNode || null);\n            this.length++;\n\n            return true;\n        } else {\n            return false;\n        }\n    }\n\n    deleteRule(index: number): void {\n        this.element.removeChild(this.nodes[index]);\n        this.length--;\n    }\n\n    getRule(index: number): string {\n        if
(index < this.length) {\n            return this.nodes[index].textContent;\n        } else {\n            return ";\n        }\n    }\n}\n\n/** A
completely virtual (server-side) Tag that doesn't manipulate the DOM *\n\nexport class VirtualTag implements Tag {\n    rules: string[];\n\n    length: number;\n\n    constructor(_target?: HTMLElement) {\n        this.rules = [];\n

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5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that
we're still looping over\n// the same string\nexport const phash = (h: number, x: string):
number => {\n  let i = x.length;\n  while (i) {\n    h = (h * 33) ^ x.charCodeAt(--i);\n  }\n  return h;\n};\n\n//
This is a djb2 hashing function\nexport const hash = (x: string): number => {\n  return phash(SEED, x);\n};\n\n", "//
@flow\nimport isFunction from './isFunction';\nimport isStyledComponent from './isStyledComponent';\nimport
type { RuleSet } from './types';\nexport default function isStaticRules(rules: RuleSet): boolean {\n  for (let i = 0; i
< rules.length; i += 1) {\n    const rule = rules[i];\n    if (isFunction(rule) && !isStyledComponent(rule)) {\n      //
functions are allowed to be static if they're just being\n      // used to get the classname of a nested styled
component\n      return false;\n    }\n  }\n  return true;\n}\n\n", "// @flow\nimport { SC_VERSION } from
'./constants';\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from './types';\nimport flatten
from './utils/flatten';\nimport generateName from './utils/generateAlphabeticName';\nimport
{ hash, phash } from './utils/hash';\nimport isStaticRules from './utils/isStaticRules';\n\nconst SEED =
hash(SC_VERSION);\n\n/**\n * ComponentStyle is all the CSS-specific stuff, not the React-specific stuff.\n
*\nexport default class ComponentStyle {\n  baseHash: number;\n\n  baseStyle: ?ComponentStyle;\n\n  componentId: string;\n\n  isStatic: boolean;\n\n  rules: RuleSet;\n\n  staticRulesId: string;\n\n  constructor(rules:
RuleSet, componentId: string, baseStyle?: ComponentStyle) {\n    this.rules = rules;\n    this.staticRulesId = "";\n
this.isStatic = process.env.NODE_ENV === 'production' &&\n    (baseStyle === undefined || baseStyle.isStatic)
&&\n    isStaticRules(rules);\n    this.componentId = componentId;\n\n    // SC_VERSION gives us isolation
between multiple runtimes on the page at once\n    // this is improved further with use of the babel plugin
\nnamespace"\n    this.baseHash = phash(SEED, componentId);\n    this.baseStyle
= baseStyle;\n\n    // NOTE: This registers the componentId, which ensures a consistent order\n    // for this
component's styles compared to others\n    StyleSheet.registerId(componentId);\n  }\n\n  /*\n * Flattens a rule set
into valid CSS\n * Hashes it, wraps the whole chunk in a .hash1234 { }\n * Returns the hash to be injected on
render()\n */\n  generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier) {\n
const { componentId } = this;\n    const names = [];\n\n    if (this.baseStyle) {\n
names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));\n    }\n\n    // force
dynamic classnames if user-supplied stylis plugins are in use\n    if (this.isStatic && !stylis.hash) {\n    if
(this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {\n
names.push(this.staticRulesId);\n    } else {\n    const cssStatic = flatten(this.rules, executionContext, styleSheet,
stylis).join("");\n    const name = generateName(phaash(this.baseHash, cssStatic) >>> 0);\n\n    if
(!styleSheet.hasNameForId(componentId, name)) {\n    const cssStaticFormatted = stylis(cssStatic, `.${name}`,
undefined, componentId);\n    styleSheet.insertRules(componentId, name, cssStaticFormatted);\n    }\n\n
names.push(name);\n    this.staticRulesId = name;\n    }\n  } else {\n    const { length } = this.rules;\n    let
dynamicHash = phash(this.baseHash, stylis.hash);\n    let css = "";\n\n    for (let i = 0; i < length; i++) {\n    const
partRule = this.rules[i];\n\n    if (typeof partRule === 'string') {\n    css += partRule;\n\n    if
(process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule + i);\n    } else if
(partRule) {\n    const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n    const
partString = Array.isArray(partChunk) ? partChunk.join("")
: partChunk;\n    dynamicHash = phash(dynamicHash, partString + i);\n    css += partString;\n    }\n
}\n\n    if (css) {\n    const name = generateName(dynamicHash >>> 0);\n\n    if
(!styleSheet.hasNameForId(componentId, name)) {\n    const cssFormatted = stylis(css, `.${name}`, undefined,
componentId);\n    styleSheet.insertRules(componentId, name, cssFormatted);\n    }\n\n
names.push(name);\n    }\n  }\n\n  return names.join(' ');\n}\n\n", "function stylis_min (W) {\n  function M(d,
c, e, h, a) {\n    for (var m = 0, b = 0, v = 0, n = 0, q, g, x = 0, K = 0, k, u = k = q = 0, l = 0, r = 0, I = 0, t = 0, B =
e.length, J = B - 1, y, f = ", p = ", F = ", G = ", C; l < B;) {\n    g = e.charCodeAt(l);\n    l === J && 0 !== b + n +
v + m && (0 !== b && (g = 47 === b ? 10 : 47), n = v = m = 0, B++, J++);\n\n    if (0 === b + n + v + m) {\n
if (l === J && (0 < r && (f = f.replace(N, "")), 0 < f.trim().length)) {\n

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break;\n\n      case 41:\n          0 === n + b + m && v--;\n          break;\n\n      case 40:\n          if (0
=== n + b + m) {\n          if (0 === q) switch (2 * x + 3 * K) {\n          case 533:\n          break;\n\n          default:\n          q = 1;\n          }\n          v++;\n          }\n\n          break;\n\n      case 64:\n\n          0 === b + v + n + m + u + k && (k = 1);\n          break;\n\n      case 42:\n          case 47:\n          if
(! (0 < n + m + v)) switch (b) {\n          case 0:\n          switch (2 * g + 3 * e.charCodeAt(1 + 1)) {\n          case 235:\n          b =
47;\n          break;\n\n          case 220:\n          t = 1, b = 42;\n          }\n\n          break;\n\n      case 42:\n          47 === g && 42 === x && t + 2 !== 1 && (33 === e.charCodeAt(t + 2)
&& (p += e.substring(t, 1 + 1)), y = ", b = 0);\n          }\n          }\n\n          0 === b && (f += y);\n          }\n\n          K =
x;\n          x = g;\n          l++;\n          }\n\n          t = p.length;\n\n          if (0 < t) {\n          r = c;\n          if (0 < A && (C = H(2, p, r, d, D, z,
t, h, a, h), void 0 !== C && 0 === (p = C).length)) return G + p + F;\n          p = r.join(',') + '{' + p + '}';\n\n          if (0 !==
w * E) {\n          2 !== w || L(p, 2) || (E = 0);\n\n          switch (E) {\n          case 111:\n          p = p.replace(ha, '-moz-$1') + p;\n          break;\n\n          case 112:\n          p = p.replace(Q, '::-webkit-input-$1') + p.replace(Q, '::-moz-$1') + p.replace(Q, '-ms-input-$1') + p;\n          }\n\n          E = 0;\n          }\n          }\n\n          return G + p + F;\n          }\n\n          function X(d, c, e) {\n          var h = c.trim().split(ia);\n          c = h;\n          var a = h.length,\n          m = d.length;\n\n          switch (m) {\n          case 0:\n          case 1:\n          var b = 0;\n\n          for (d = 0 === m ? " : d[0] + ' '; b < a; ++b) {\n          c[b] = Z(d, c[b], e).trim();\n          }\n\n          break;\n\n          default:\n          var v = b = 0;\n\n          for (c = []; b < a; ++b) {\n          for (var n = 0; n < m; ++n) {\n          c[v++] =
Z(d[n] + ' ', h[b], e).trim());\n          }\n          }\n\n          return c;\n          }\n\n          function Z(d, c, e) {\n          var h =
c.charCodeAt(0);\n          33 > h && (h = (c = c.trim()).charCodeAt(0));\n\n          switch (h) {\n          case 38:\n          return
c.replace(F, '$1' + d.trim());\n\n          case 58:\n          return d.trim() + c.replace(F, '$1' + d.trim());\n\n          default:\n          if (0 < 1 * e && 0 < c.indexOf("\\f")) return c.replace(F, (58 === d.charCodeAt(0) ? " : '$1') +
d.trim());\n          }\n\n          return d + c;\n          }\n\n          function P(d, c, e, h) {\n          var a = d + ';;',\n          m = 2 * c + 3 * e + 4 *
h;\n\n          if (944 === m) {\n          d = a.indexOf(':', 9) + 1;\n          var b = a.substring(d, a.length - 1).trim();\n          b =
a.substring(0, d).trim() + b + ';;'\n          return 1 === w || 2 === w && L(b, 1) ? '-webkit-' + b + b : b;\n          }\n\n          if (0
=== w || 2 === w && !L(a, 1)) return a;\n\n          switch (m) {\n          case 1015:\n          return 97 === a.charCodeAt(10) ?
'-webkit-' + a + a : a;\n\n          case 951:\n          return 116 === a.charCodeAt(3) ? '-webkit-' + a + a : a;\n\n          case
963:\n          return 110 === a.charCodeAt(5) ? '-webkit-' + a + a : a;\n\n          case 1009:\n          if (100 !==
a.charCodeAt(4)) break;\n\n          case 969:\n          case 942:\n          return '-webkit-' + a + a;\n\n          case 978:\n          return '-webkit-'
+ a + '-moz-' + a + a;\n\n          case 1019:\n          case 983:\n          return '-webkit-' + a + '-moz-' + a + '-ms-' + a + a;\n\n          case 883:\n          if (45 === a.charCodeAt(8)) return '-webkit-' + a + a;\n          if (0 < a.indexOf('image-set(', 11))
return a.replace(ja, '$1-webkit-$2') + a;\n          break;\n\n          case 932:\n          if (45 === a.charCodeAt(4)) switch
(a.charCodeAt(5)) {\n          case 103:\n          return '-webkit-box-' + a.replace('-grow', " ") + '-webkit-' + a + '-ms-' +
a.replace('grow', 'positive') + a;\n\n          case 115:\n          return '-webkit-' + a + '-ms-' + a.replace('shrink',
'negative') + a;\n\n          case 98:\n          return '-webkit-' + a + '-ms-' + a.replace('basis', 'preferred-size') + a;\n          }\n          return '-webkit-' + a + '-ms-' + a + a;\n\n          case 964:\n          return '-webkit-' + a + '-ms-flex-' + a + a;\n\n          case 1023:\n          if (99 !== a.charCodeAt(8)) break;\n          b = a.substring(a.indexOf(':', 15)).replace('flex-',
").replace('space-between', 'justify');\n          return '-webkit-box-pack' + b + '-webkit-' + a + '-ms-flex-pack' + b +
a;\n\n          case 1005:\n          return ka.test(a) ? a.replace(aa, '-webkit-') + a.replace(aa, '-moz-') + a : a;\n\n          case
1e3:\n          b = a.substring(13).trim();\n          c = b.indexOf('-') + 1;\n\n          switch (b.charCodeAt(0) +
b.charCodeAt(c)) {\n          case 226:\n          b = a.replace(G, 'tb');\n          break;\n\n          case 232:\n          b =
a.replace(G, 'tb-rl');\n          break;\n\n          case 220:\n          b = a.replace(G, 'lr');\n          break;\n\n          default:\n          return a;\n          }\n\n          return '-webkit-' + a + '-ms-' + b + a;\n\n          case 1017:\n          if (-1 ===
a.indexOf('sticky', 9)) break;\n\n          case 975:\n          c = (a = d).length - 10;\n          b = (33 === a.charCodeAt(c) ?
a.substring(0, c) : a).substring(d.indexOf(':', 7) + 1).trim();\n\n          switch (m = b.charCodeAt(0)
+ (b.charCodeAt(7) | 0)) {\n          case 203:\n          if (111 > b.charCodeAt(8)) break;\n\n          case 115:\n          a = a.replace(b, '-webkit-' + b) + ';' + a;\n          break;\n\n          case 207:\n          case 102:\n          a = a.replace(b,

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'-webkit-' + (102 < m ? 'inline-' : '') + 'box') + ';' + a.replace(b, '-webkit-' + b) + ';' + a.replace(b, '-ms-' + b + 'box') +
';' + a;\n    }\n\n    return a + ';\n\n    case 938:\n        if (45 === a.charCodeAt(5)) switch (a.charCodeAt(6))
{\n        case 105:\n            return b = a.replace('-items', ''), '-webkit-' + a + '-webkit-box-' + b + '-ms-flex-' + b +
a;\n\n        case 115:\n            return '-webkit-' + a + '-ms-flex-item-' + a.replace(ba, '') + a;\n\n        default:\n            return '-webkit-' + a + '-ms-flex-line-pack' + a.replace('align-content', '').replace(ba, '') + a;\n        }\n        break;\n\n        case 973:\n        case 989:\n            if (45 !== a.charCodeAt(3))
|| 122 === a.charCodeAt(4)) break;\n\n        case 931:\n        case 953:\n            if (!0 === la.test(d)) return 115 === (b =
d.substring(d.indexOf(':') + 1)).charCodeAt(0) ? P(d.replace('stretch', 'fill-available'), c, e, h).replace('fill-available',
'stretch') : a.replace(b, '-webkit-' + b) + a.replace(b, '-moz-' + b.replace('fill-', '')) + a;\n        break;\n\n        case 962:\n            if (a = '-webkit-' + a + (102 === a.charCodeAt(5) ? '-ms-' + a : '') + a, 211 === e + h && 105 ===
a.charCodeAt(13) && 0 < a.indexOf('transform', 10)) return a.substring(0, a.indexOf(':', 27) + 1).replace(ma, '$1-
webkit-$2') + a;\n        }\n\n        return a;\n    }\n\n    function L(d, c) {\n        var e = d.indexOf(1 === c ? ':': '{'),\n            h =
d.substring(0, 3 !== c ? e : 10);\n        e = d.substring(e + 1, d.length - 1);\n        return R(2 !== c ? h : h.replace(na, '$1'),
e, c);\n    }\n\n    function ea(d, c) {\n        var e = P(c, c.charCodeAt(0), c.charCodeAt(1), c.charCodeAt(2));\n        return e
!== c + ';' ? e.replace(oa,
' or ($1)').substring(4) : '( + c + ');\n    }\n\n    function H(d, c, e, h, a, m, b, v, n, q) {\n        for (var g = 0, x = c, w; g <
A; ++g) {\n            switch (w = S[g].call(B, d, x, e, h, a, m, b, v, n, q)) {\n                case void 0:\n                case !1:\n                case
!0:\n                case null:\n                    break;\n\n                default:\n                    x = w;\n            }\n        }\n\n        if (x !== c) return x;\n    }\n\n    function T(d) {\n        switch (d) {\n            case void 0:\n            case null:\n                A = S.length = 0;\n                break;\n\n            default:\n                if ('function' === typeof d) S[A++] = d;else if ('object' === typeof d) for (var c = 0, e = d.length; c <
e; ++c) {\n                    T(d[c]);\n                } else Y = !!d | 0;\n        }\n\n        return T;\n    }\n\n    function U(d) {\n        d = d.prefix;\n        void 0 !== d && (R = null, d ? 'function' !== typeof d ? w = 1 : (w = 2, R = d) : w = 0);\n        return U;\n    }\n\n    function B(d, c) {\n        var e = d;\n        33 > e.charCodeAt(0) && (e = e.trim());\n        V = e;\n        e
= [V];\n\n        if (0 < A) {\n            var h = H(-1, c, e, e, D, z, 0, 0, 0, 0);\n            void 0 !== h && 'string' === typeof h &&
(c = h);\n        }\n\n        var a = M(O, e, c, 0, 0);\n        0 < A && (h = H(-2, a, e, e, D, z, a.length, 0, 0, 0), void 0 !== h &&
(a = h));\n        V = ";\n        E = 0;\n        z = D = 1;\n        return a;\n    }\n\n    var ca = /\^\\0+/g,\n        N = /(\\|\\t\\r\\f|/g,\n        aa =
/: */g,\n        ka = /zoolgra/,
        ma = /(\\[. : ])(transform)/g,\n        ia = /,\\r+?/g,\n        F = /(\\|\\t\\r\\n )*\\f?&/g,\n        fa =
/@(k\\|w+)|s*(\\S*)|s*/,\n        Q = /:(place)/g,\n        ha = /:(read-only)/g,\n        G = /[svh]\\|w+-[tblr]{2}/,\n        da =
^\\(\\|s*(.*)|s*\\|/g,\n        oa = /(\\|s\\|S)*?;/g,\n        ba = /-self\\flex-/g,\n        na = /[^]*?:([rp][el]a[\\w-]+)[^]*/,
        la =
/stretch|:\\|s*\\|w+\\|-(?:contelavail)/,\n        ja = /([^-])\\(image-set\\(\\)/,\n        z = 1,\n        D = 1,\n        E = 0,\n        w = 1,\n
O = [],\n        S = [],\n        A = 0,\n        R = null,\n        Y = 0,\n        V =
";\n        B.use = T;\n        B.set = U;\n        void 0 !== W && U(W);\n        return B;\n    }\n\n    export default stylis_min;\n", "import
Stylis from '@emotion/stylis';\nimport { type Stringifier } from './types';\nimport { EMPTY_ARRAY,
EMPTY_OBJECT } from './empties';\nimport throwStyledError from './error';\nimport { phash, SEED } from
'./hash';\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst COMMENT_REGEX =
/^\\s*\\|\\|\\.|.*$/gm;\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];\n\nexport type StylisInstanceConstructorArgs
= {\n    options?: Object,\n    plugins?: Array<Function>,\n};\n\nexport default function createStylisInstance({\n    options = EMPTY_OBJECT,\n    plugins = EMPTY_ARRAY,\n}: StylisInstanceConstructorArgs =
EMPTY_OBJECT) {\n    const stylis = new Stylis(options);\n\n    // Wrap `insertRulePlugin` to build a list of rules, and then make our own plugin to return the rules. This\n    // makes it easier to hook into the existing SSR architecture\n\n    let parsingRules = [];\n\n    // eslint-disable-next-line
consistent-return\n    const returnRulesPlugin = context => {\n        if (context === -2) {\n            const parsedRules =
parsingRules;\n            parsingRules = [];\n            return parsedRules;\n        }\n    };\n\n    const parseRulesPlugin =
insertRulePlugin(rule => {\n        parsingRules.push(rule);\n    });\n\n    let _componentId: string;\n    let _selector:
string;\n    let _selectorRegex: RegExp;\n    let _consecutiveSelfRefRegex: RegExp;\n\n    const
selfReferenceReplacer = (match, offset, string) => {\n        if (\n            // do not replace the first occurrence if it is
complex (has a modifier)\n            (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])
=== -1 : true) &&\n            // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n

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!string.match(_consecutiveSelfRefRegExp)\n ) {\n return `.${_componentId}`;\n }\n\n return match;\n
};\n\n /**\n * When writing a style like\n *\n * & + & {\n * color: red;\n * }\n\n *\n * The second ampersand should be a reference to the static component class. stylis\n * has no knowledge of
static class so we have to intelligently replace the base selector.\n *\n *
https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the context phase values\n * \"2\"
means this plugin is taking effect at the very end after all other processing is complete\n */\n const
selfReferenceReplacementPlugin = (context, _, selectors) => {\n if (context === 2 && selectors.length &&
selectors[0].lastIndexOf(_selector) > 0) {\n // eslint-disable-next-line no-param-reassign\n selectors[0] =
selectors[0].replace(_selectorRegExp, selfReferenceReplacer);\n }\n };\n\n stylis.use([...plugins,
selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n\n function stringifyRules(css, selector,
prefix, componentId = '&'): Stringifier {\n const flatCSS = css.replace(COMMENT_REGEX, "");\n const cssStr
= selector && prefix
? ` ${prefix} ${selector} { ${flatCSS} } ` : flatCSS;\n\n // stylis has no concept of state to be passed to plugins\n
// but since JS is single-threaded, we can rely on that to ensure\n // these properties stay in sync with the current
stylis run\n _componentId = componentId;\n _selector = selector;\n _selectorRegExp = new
RegExp(`\\${_selector}\\b`, 'g');\n _consecutiveSelfRefRegExp = new RegExp(`(\\${_selector}\\b){2,}`);\n\n
return stylis(prefix || !selector ? " : selector, cssStr);\n }\n\n stringifyRules.hash = plugins.length\n ? plugins\n
.reduce((acc, plugin) => {\n if (!plugin.name) {\n throwStyledError(15);\n }\n\n return
phash(acc, plugin.name);\n }, SEED)\n .toString()\n : ";\n\n return stringifyRules;\n }\n\n /**\n * MIT
License\n *\n * Copyright (c) 2016 Sultan Tarimo\n *\n * Permission is hereby granted, free of charge, to any
person obtaining a copy of\n * this software and
associated documentation files (the "Software"),\n * to deal in the Software without restriction, including without
limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n * sell copies of the
Software and to permit persons to whom the Software is furnished to do so, subject to the following conditions:\n
*\n * The above copyright notice and this permission notice shall be included in all\n * copies or substantial portions
of the Software.\n *\n * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS\n * OR IMPLIED INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
EVENT SHALL THE\n * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY,\n * WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR\n * IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.\n *\n */\n\n * eslint-disable *\n\n\nexport
default function(insertRule) {\n const delimiter = '*/';\n const needle = ` ${delimiter} `;\n\n function
toSheet(block) {\n if (block) {\n try {\n insertRule(`${block}`);\n } catch (e) {} }\n }\n\n return
function ruleSheet(\n context,\n content,\n selectors,\n parents,\n line,\n column,\n length,\n ns,\n
depth,\n at\n ) {\n switch (context) {\n // property\n case 1:\n // @import\n if (depth === 0 &&
content.charCodeAt(0) === 64) return insertRule(`${content};`), "\n break;\n // selector\n case 2:\n if
(ns === 0) return content + delimiter;\n break;\n // at-rule\n case 3:\n switch (ns) {\n // @font-
face, @page\n case 102:\n case 112:\n return insertRule(selectors[0] + content), "\n
default:\n return content + (at === 0 ? delimiter : ");\n }\n case -2:\n
content.split(needle).forEach(toSheet);\n
}\n };\n }\n\n", "\n\n @flow\n\nimport React, { type Context, type Node, useContext, useEffect, useMemo, useState }
from 'react';\nimport shallowequal from 'shallowequal';\nimport StyleSheet from './sheet';\nimport type { Stringifier
} from './types';\nimport createStylisInstance from './utils/stylis';\n\nexport type Props = {\n children?: Node,\n
disableCSSOMInjection?: boolean,\n disableVendorPrefixes?: boolean,\n sheet?: StyleSheet,\n stylisPlugins?:
Array<Function>,\n target?: HTMLElement,\n};\n\nexport const StyleSheetContext: Context<StyleSheet | void> =
React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const
StylisContext: Context<Stringifier | void> = React.createContext();\nexport const StylisConsumer =

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StyleContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:
Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n
  return useContext(StyleSheetContext) || masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n return
useContext(StylisContext) || masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n const
[plugins, setPlugins] = useState(props.stylisPlugins);\n const contextStyleSheet = useStyleSheet();\n\n const
styleSheet = useMemo(() => {\n let sheet = contextStyleSheet;\n\n if (props.sheet) {\n // eslint-disable-next-
line prefer-destructuring\n sheet = props.sheet;\n } else if (props.target) {\n sheet =
sheet.reconstructWithOptions({ target: props.target }, false);\n }\n\n if (props.disableCSSOMInjection) {\n
sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });\n }\n\n return sheet;\n },
[props.disableCSSOMInjection, props.sheet, props.target]);\n\n const stylis = useMemo(\n () =>\n
createStylisInstance({\n options: { prefix: !props.disableVendorPrefixes },\n plugins,\n
}),\n [props.disableVendorPrefixes, plugins]\n );\n\n useEffect(() => {\n if (!shallowEqual(plugins,
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n }, [props.stylisPlugins]);\n\n return (\n
<StyleSheetContext.Provider value={styleSheet}>\n <StylisContext.Provider value={stylis}>\n
{process.env.NODE_ENV !== 'production'\n ? React.Children.only(props.children)\n : props.children}\n
</StylisContext.Provider>\n </StyleSheetContext.Provider>\n );\n}\n\n", "\n\nmodule.exports = function
shallowEqual(objA, objB, compare, compareContext) {\n var ret = compare ? compare.call(compareContext, objA,
objB) : void 0;\n\n if (ret !== void 0) {\n return !!ret;\n }\n\n if (objA === objB) {\n return true;\n }\n\n if
(typeof objA !== 'object' || !objA || typeof objB !== 'object' || !objB) {\n return false;\n }\n\n var keysA =
Object.keys(objA);\n var keysB = Object.keys(objB);\n\n if (keysA.length !== keysB.length) {\n
return false;\n }\n\n var bHasOwnProperty = Object.prototype.hasOwnProperty.bind(objB);\n\n // Test for A's
keys different from B.\n for (var idx = 0; idx < keysA.length; idx++) {\n var key = keysA[idx];\n\n if
(!bHasOwnProperty(key)) {\n return false;\n }\n\n var valueA = objA[key];\n var valueB = objB[key];\n\n
ret = compare ? compare.call(compareContext, valueA, valueB, key) : void 0;\n\n if (ret === false || (ret === void
0 && valueA !== valueB)) {\n return false;\n }\n\n return true;\n};\n\n", "\n\n@flow\nimport StyleSheet from
'../sheet';\nimport { type Stringifier } from '../types';\nimport throwStyledError from '../utils/error';\nimport {
masterStylis } from './StyleSheetManager';\n\nexport default class Keyframes {\n id: string;\n name: string;\n
rules: string;\n\n constructor(name: string, rules: string) {\n this.name = name;\n this.id = `sc-keyframes-
${name}`;\n this.rules = rules;\n }\n\n inject = (styleSheet: StyleSheet,
stylisInstance: Stringifier) => {\n const resolvedName = this.name + stylisInstance.hash;\n\n if
(!styleSheet.hasNameForId(this.id, resolvedName)) {\n styleSheet.insertRules(\n this.id,\n
resolvedName,\n stylisInstance(this.rules, resolvedName, '@keyframes')\n );\n }\n\n }\n\n toString = () =>
{\n return throwStyledError(12, String(this.name));\n };\n\n getName(stylisInstance: Stringifier = masterStylis)
{\n return this.name + stylisInstance.hash;\n }\n}\n\n", "\n\n@flow\n\n**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n * \n\nconst
uppercaseCheck = /^[A-Z]/;\nconst uppercasePattern = /^[A-Z]/g;\nconst msPattern = /^ms-/;\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n**\n * Hyphenates a camelcased
CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n * \n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `ms-`.\n * \n * @param {string} string\n *
@return {string}\n * \n\nexport default function hyphenateStyleName(string: string): string {\n return
uppercaseCheck.test(string)\n ? string\n .replace(uppercasePattern, prefixAndLowerCase)\n .replace(msPattern,
'-ms-')\n : string;\n}\n\n", "\n\nvar unitlessKeys = {\n animationIterationCount: 1,\n backgroundImageOutset: 1,\n
borderImageSlice: 1,\n backgroundImageWidth: 1,\n boxFlex: 1,\n boxFlexGroup: 1,\n boxOrdinalGroup: 1,\n
columnCount: 1,\n columns: 1,\n flex: 1,\n flexGrow: 1,\n flexPositive: 1,\n flexShrink: 1,\n flexNegative: 1,\n
flexOrder: 1,\n gridRow: 1,\n gridRowEnd: 1,\n gridRowSpan: 1,\n gridRowStart: 1,\n gridColumn: 1,\n

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gridColumnEnd: 1,\n gridColumnSpan: 1,\n gridColumnStart:
1,\n msGridRow: 1,\n msGridRowSpan: 1,\n msGridColumn: 1,\n msGridColumnSpan: 1,\n fontWeight: 1,\n
lineHeight: 1,\n opacity: 1,\n order: 1,\n orphans: 1,\n tabSize: 1,\n widows: 1,\n zIndex: 1,\n zoom: 1,\n
WebkitLineClamp: 1,\n // SVG-related properties\n fillOpacity: 1,\n floodOpacity: 1,\n stopOpacity: 1,\n
strokeDasharray: 1,\n strokeDashoffset: 1,\n strokeMiterlimit: 1,\n strokeOpacity: 1,\n strokeWidth:
1\n};\n\nexport default unitlessKeys;\n", "/* @flow\nimport { isElement } from 'react-is';\nimport
getComponentName from './getComponentName';\nimport isFunction from './isFunction';\nimport
isStatelessFunction from './isStatelessFunction';\nimport isPlainObject from './isPlainObject';\nimport
isStyledComponent from './isStyledComponent';\nimport Keyframes from './models/Keyframes';\nimport hyphenate
from './hyphenateStyleName';\nimport addUnitIfNeeded from './addUnitIfNeeded';\nimport { type Stringifier } from
'./types';\n\n/**\n * It's falsish
not falsy because 0 is allowed.\n *\nconst isFalsish = chunk => chunk === undefined || chunk === null || chunk
=== false || chunk === "";\n\nexport const objToCssArray = (obj: Object, prevKey?: string): Array<string |
Function> => {\n  const rules = [];\n\n  for (const key in obj) {\n    if (!obj.hasOwnProperty(key) ||
isFalsish(obj[key])) continue;\n\n    if ((Array.isArray(obj[key]) && obj[key].isCss) || isFunction(obj[key])) {\n
rules.push(`${hyphenate(key)}:`, obj[key], `);`\n    } else if (isPlainObject(obj[key])) {\n
rules.push(...objToCssArray(obj[key], key));\n    } else {\n      rules.push(`${hyphenate(key)}:
${addUnitIfNeeded(key, obj[key])};`);\n    }\n  }\n\n  return prevKey ? [`${prevKey} {`, ...rules, `}`] :
rules;\n};\n\nexport default function flatten(n chunk: any, executionContext: ?Object, styleSheet: ?Object,
stylisInstance: ?Stringifier): any {\n  if (Array.isArray(chunk)) {\n    const ruleSet = [];\n\n    for (let i = 0, len =
chunk.length,
result; i < len; i += 1) {\n      result = flatten(chunk[i], executionContext, styleSheet, stylisInstance);\n\n      if (result
=== "") continue;\n      else if (Array.isArray(result)) ruleSet.push(...result);\n      else ruleSet.push(result);\n    }\n\n    return ruleSet;\n  }\n\n  if (isFalsish(chunk)) {\n    return "";\n  }\n\n  /* Handle other components *\n  if
(isStyledComponent(chunk)) {\n    return `.${chunk.styledComponentId}`;\n  }\n\n  /* Either execute or defer the
function *\n  if (isFunction(chunk)) {\n    if (isStatelessFunction(chunk) && executionContext) {\n      const result
= chunk(executionContext);\n\n      if (process.env.NODE_ENV !== 'production' && isElement(result)) {\n        //
eslint-disable-next-line no-console\n        console.warn(`\n      ${getComponentName(chunk)}\n      `) is
not a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components
for more details.`);\n      }\n      return flatten(result, executionContext, styleSheet, stylisInstance);\n    }
else return chunk;\n  }\n\n  if (chunk instanceof Keyframes) {\n    if (styleSheet) {\n      chunk.inject(styleSheet,
stylisInstance);\n      return chunk.getName(stylisInstance);\n    } else return chunk;\n  }\n\n  /* Handle objects *\n  return isPlainObject(chunk) ? objToCssArray(chunk) : chunk.toString();\n}\n", "/* @flow\nexport default function
isStatelessFunction(test: any): boolean {\n  return (\n    typeof test === 'function'\n    && !(test.prototype\n    && test.prototype.isReactComponent\n  ));\n}\n", "/* @flow\nimport unitless from '@emotion/unitless';\n\n//
Taken from https://github.com/facebook/react/blob/b87aabdfe1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js\nexport default function addUnitIfNeeded(name: string, value: any): any {\n
// https://github.com/amilajack/eslint-plugin-flowtype-errors/issues/133\n
// $FlowFixMe\n  if (value == null || typeof value === 'boolean' || value === "") {\n    return "";\n  }\n\n  if (typeof
value === 'number' && value !== 0 && !(name in unitless) && !name.startsWith('--')) {\n    return `${value}px`; //
Presumes implicit 'px' suffix for unitless numbers except for CSS variables\n  }\n\n  return
String(value).trim();\n}\n", "/* @flow\nimport Interleave from './utils/interleave';\nimport isPlainObject from
'./utils/isPlainObject';\nimport { EMPTY_ARRAY } from './utils/empties';\nimport isFunction from
'./utils/isFunction';\nimport flatten from './utils/flatten';\nimport type { Interpolation, RuleSet, Styles } from
'./types';\n\n/**\n * Used when flattening object styles to determine if we should\n * expand an array of styles.\n
*\nconst addTag = arg => {\n  if (Array.isArray(arg)) {\n    // eslint-disable-next-line no-param-reassign\n
arg.isCss = true;\n  }\n  return arg;\n};\n\nexport default function css(styles: Styles, ...interpolations:

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Array<Interpolation>): RuleSet {\n if (isFunction(styles) || isPlainObject(styles)) {\n // $FlowFixMe\n return
addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations]));\n }\n\n if (interpolations.length === 0
&& styles.length === 1 && typeof styles[0] === 'string') {\n // $FlowFixMe\n return styles;\n }\n\n //
$FlowFixMe\n return addTag(flatten(interleave(styles, interpolations));\n }\n\n", "// @flow\nimport StyleSheet from
'./sheet';\nimport type { RuleSet, Stringifier } from './types';\nimport flatten from './utils/flatten';\nimport
isStaticRules from './utils/isStaticRules';\n\nexport default class GlobalStyle {\n componentId: string;\n\n isStatic:
boolean;\n\n rules: RuleSet;\n\n constructor(rules: RuleSet, componentId: string) {\n this.rules = rules;\n
this.componentId = componentId;\n this.isStatic = isStaticRules(rules);\n\n // pre-register the first instance to
ensure global styles\n // load before component ones\n
StyleSheet.registerId(this.componentId + 1);\n }\n\n createStyles(\n instance: number,\n executionContext:
Object,\n styleSheet: StyleSheet,\n stylis: Stringifier\n ) {\n const flatCSS = flatten(this.rules,
executionContext, styleSheet, stylis);\n const css = stylis(flatCSS.join(""), "");\n const id = this.componentId +
instance;\n\n // NOTE: We use the id as a name as well, since these rules never change\n
styleSheet.insertRules(id, id, css);\n }\n\n removeStyles(instance: number, styleSheet: StyleSheet) {\n
styleSheet.clearRules(this.componentId + instance);\n }\n\n renderStyles(\n instance: number,\n
executionContext: Object,\n styleSheet: StyleSheet,\n stylis: Stringifier\n ) {\n if (instance > 2)
StyleSheet.registerId(this.componentId + instance);\n\n // NOTE: Remove old styles, then inject the new ones\n
this.removeStyles(instance, styleSheet);\n this.createStyles(instance, executionContext, styleSheet, stylis);\n
}\n}\n", "//
@flow\nimport React, { useContext, useMemo, type Element, type Context } from 'react';\nimport
throwStyledError from './utils/error';\nimport isFunction from './utils/isFunction';\n\nexport type Theme = { [key:
string]: mixed };\n\ntype ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);\n\ntype Props = {\n
children?: Element<any>,\n theme: ThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void>
= React.createContext();\n\nexport const ThemeConsumer = ThemeContext.Consumer;\n\nfunction
mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {\n if (!theme) {\n return
throwStyledError(14);\n }\n\n if (isFunction(theme)) {\n const mergedTheme = theme(outerTheme);\n\n if (\n
process.env.NODE_ENV !== 'production' &&\n (mergedTheme === null || Array.isArray(mergedTheme) ||
typeof mergedTheme !== 'object')\n ) {\n return throwStyledError(7);\n }\n\n return mergedTheme;\n }\n\n
if (Array.isArray(theme) || typeof theme
!== 'object') {\n return throwStyledError(8);\n }\n\n return outerTheme ? { ...outerTheme, ...theme } :
theme;\n}\n\n/**\n * Provide a theme to an entire react component tree via context\n */\n\nexport default function
ThemeProvider(props: Props) {\n const outerTheme = useContext(ThemeContext);\n const themeContext =
useMemo(() => mergeTheme(props.theme, outerTheme), [\n props.theme,\n outerTheme,\n ]);\n\n if
(!props.children) {\n return null;\n }\n\n return <ThemeContext.Provider
value={themeContext}>{props.children}</ThemeContext.Provider>;\n}\n\n", "// @flow\nimport { EMPTY_OBJECT
} from './empties';\n\ntype Props = {\n theme?: any,\n};\n\nexport default (props: Props, providedTheme: any,
defaultProps: any = EMPTY_OBJECT) => {\n return (props.theme !== defaultProps.theme && props.theme) ||
providedTheme || defaultProps.theme;\n};\n", "// @flow\n\n/* eslint-disable *\nimport generateAlphabeticName from
'./generateAlphabeticName';\nimport { hash } from './hash';\n\nexport
default (str: string): string => {\n return generateAlphabeticName(hash(str) >>> 0);\n};\n", "// @flow\n\n/* eslint-
disable no-underscore-dangle *\nimport React from 'react';\nimport { IS_BROWSER, SC_ATTR,
SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport throwStyledError from './utils/error';\nimport
getNonce from './utils/nonce';\nimport StyleSheet from './sheet';\nimport StyleSheetManager from
'./StyleSheetManager';\n\ndeclare var __SERVER__: boolean;\n\nconst CLOSING_TAG_R = /^\\s*<\\[a-
z\\]/i;\n\nexport default class ServerStyleSheet {\n isStreaming: boolean;\n\n instance: StyleSheet;\n\n sealed:
boolean;\n\n constructor() {\n this.instance = new StyleSheet({ isServer: true });\n this.sealed = false;\n }\n\n
_emitSheetCSS = (): string => {\n const css = this.instance.toString();\n if (!css) return "";\n\n const nonce =
getNonce();\n const attrs = [nonce && `nonce=\"${nonce}\"`, `${SC_ATTR}=\"true\"`,

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`$ {SC_ATTR_VERSION}=${SC_VERSION}`;};\n
  const htmlAttr = attrs.filter(Boolean).join(' '); \n  return `
```

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getStatics(targetComponent);\n  var sourceStatics = getStatics(sourceComponent);\n\n  for (var i = 0; i < keys.length; ++i) {\n    var key = keys[i];\n    if (!KNOWN_STATICS[key] && !(blacklist && blacklist[key]) && !(sourceStatics && sourceStatics[key]) && !(targetStatics && targetStatics[key])) {\n      var descriptor = getOwnPropertyDescriptor(sourceComponent, key);\n      try {\n        // Avoid failures from read-only properties\n        defineProperty(targetComponent, key, descriptor);\n      } catch (e) {}\n    }\n  }\n\n  return targetComponent;\n}\n\nmodule.exports = hoistNonReactStatics;\n\n"/ @flow\n/* eslint-disable *\n\nimport StyleSheet from './sheet';\nimport { masterSheet } from './models/StyleSheetManager';\n\nexport const __PRIVATE__ = {\n  StyleSheet,\n  masterSheet,\n};\n\n"/ @flow\nimport React, { useContext, useLayoutEffect, useRef } from 'react';\nimport { STATIC_EXECUTION_CONTEXT } from './constants';\nimport GlobalStyle from './models/GlobalStyle';\nimport { useStyleSheet, useStylis } from './models/StyleSheetManager';\nimport { ThemeContext } from './models/ThemeProvider';\nimport type { Interpolation } from './types';\nimport { checkDynamicCreation } from './utils/checkDynamicCreation';\nimport determineTheme from './utils/determineTheme';\nimport generateComponentId from './utils/generateComponentId';\nimport css from './css';\n\ndeclare var __SERVER__: boolean;\n\ntype GlobalStyleComponentPropsType = Object;\n\nexport default function createGlobalStyle(\n  strings: Array<string>,\n  ...interpolations: Array<Interpolation>)\n  {\n    const rules = css(strings, ...interpolations);\n    const styledComponentId = `sc-global-${generateComponentId(JSON.stringify(rules))}`;\n    const globalStyle = new GlobalStyle(rules, styledComponentId);\n\n    if (process.env.NODE_ENV !== 'production') {\n      checkDynamicCreation(styledComponentId);\n    }\n\n    function GlobalStyleComponent(props: GlobalStyleComponentPropsType) {\n      const styleSheet = useStyleSheet();\n      const stylis = useStylis();\n\n      const theme = useContext(ThemeContext);\n      const instanceRef = useRef(styleSheet.allocateGSInstance(styledComponentId));\n\n      const instance = instanceRef.current;\n\n      if (process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {\n        // eslint-disable-next-line no-console\n        console.warn(\n          `The global style component ${styledComponentId} was given child JSX. createGlobalStyle does not render children.`\n        );\n      }\n\n      if (\n        process.env.NODE_ENV !== 'production' &&\n        rules.some(rule => typeof rule === 'string' && rule.indexOf('@import') !== -1)\n      ) {\n        // eslint-disable-next-line no-console\n        console.warn(\n          `Please do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in production do not handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the stylesheet, or simply embedding it manually in your index.html <head> section for a simpler app.`\n        );\n      }\n\n      if (styleSheet.server) {\n        renderStyles(instance, props, styleSheet, theme, stylis);\n      }\n\n      if (!__SERVER__) {\n        // this conditional is fine because it is compiled away for the relevant builds during minification,\n        // resulting in a single unguarded hook call\n        // eslint-disable-next-line react-hooks/rules-of-hooks\n        useLayoutEffect(() => {\n          if (styleSheet.server) {\n            renderStyles(instance, props, styleSheet, theme, stylis);\n          }\n          return () => globalStyle.removeStyles(instance, styleSheet);\n        }, [instance, props, styleSheet, theme, stylis]);\n      }\n\n      return null;\n    }\n\n    function renderStyles(instance, props, styleSheet, theme, stylis) {\n      if (globalStyle.isStatic) {\n        globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet, stylis);\n      } else {\n        const context = {\n          ...props,\n          theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),\n        };\n        globalStyle.renderStyles(instance, context, styleSheet, stylis);\n      }\n    }\n\n    // $FlowFixMe\n    return React.memo(GlobalStyleComponent);\n  }\n\n"/ @flow\n\nimport css from './css';\nimport generateComponentId from './utils/generateComponentId';\nimport Keyframes from './models/Keyframes';\nimport type { Interpolation, Styles } from './types';\n\nexport default function keyframes(\n  strings: Styles,\n  ...interpolations: Array<Interpolation>)\n  : Keyframes {\n    /* Warning if you've used keyframes on React Native *\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      typeof navigator !== 'undefined' &&\n      navigator.product === 'ReactNative'\n    ) {\n      // eslint-disable-next-line no-console\n      console.warn(\n        `keyframes` cannot be used on ReactNative, only on the web. To do animation in ReactNative please use Animated.`\n      );\n    }\n\n    const rules = css(strings, ...interpolations).join("");\n    const

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name = generateComponentId(rules);\n return new Keyframes(name, rules);\n}\n", "/* @flow\nimport { useContext\n} from 'react';\nimport { ThemeContext } from '../models/ThemeProvider';\n\nconst useTheme = () =>\nuseContext(ThemeContext);\n\nexport default useTheme;\n", "/* @flow\nimport React, { useContext, type\nAbstractComponent } from 'react';\nimport hoistStatics from 'hoist-non-react-statics';\nimport { ThemeContext }\nfrom '../models/ThemeProvider';\nimport determineTheme from '../utils/determineTheme';\nimport\ngetComponentName from '../utils/getComponentName';\n\n// NOTE: this would be the correct signature:\n export\ndefault <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):\nAbstractComponent<${Diff<Config, { theme?: any } } & { theme?: any }, Instance>\n\n// but the old build system\ntooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n //\n$FlowFixMe This should be React.forwardRef<Config, Instance>\n\n  const WithTheme = React.forwardRef((props, ref) => {\n  const theme = useContext(ThemeContext);\n  //\n$FlowFixMe defaultProps isn't declared so it can be inferable\n  const { defaultProps } = Component;\n  const\n  themeProp = determineTheme(props, theme, defaultProps);\n\n  if (process.env.NODE_ENV !== 'production' &&\n  themeProp === undefined) {\n    // eslint-disable-next-line no-console\n    console.warn(`\n[withTheme] You\nare not using a ThemeProvider nor passing a theme prop or a theme in defaultProps in component class\n\n`$\n${getComponentName(Component)}\n`);\n  }\n\n  return <Component {...props}\n  theme={themeProp} ref={ref} />;\n  }\n);\n\nhoistStatics(WithTheme, Component);\n\nWithTheme.displayName =\n`WithTheme(${getComponentName(Component)})`;\n\nreturn WithTheme;\n};\n", "function memoize(fn) {\n var\n  cache = Object.create(null);\n  return function (arg) {\n    if (cache[arg] === undefined) cache[arg] = fn(arg);\n\n    return cache[arg];\n  };\n}\n\nexport default memoize;\n", "import memoize from '@emotion/memoize';\n\nvar\n  reactPropsRegex =\n/^(children|dangerouslySetInnerHTML|key|ref|autoFocus|defaultValue|defaultChecked|innerHTML|suppressContent\nEditableWarning|suppressHydrationWarning|valueLink|accept|acceptCharset|accessKey|action|allow|allowUserMed\nia|allowPaymentRequest|allowFullscreen|allowTransparency|alt|async|autocomplete|autoplay|capture|cellPadding|c\nellSpacing|challenge|charSet|checked|cite|className|cols|colSpan|content|contentEditable|contextMenu|cont\nrols|controlsList|coords|crossOrigin|data|dateTime|decoding|default|defer|dir|disabled|disablePictureInPicture|downlo\nad|draggable|encType|form|formAction|formEncType|formMethod|formNoValidate|formTarget|frameBorder|header\ns|height|hidden|high|href|hrefLang|htmlFor|httpEquiv|id|inputMode|integrity|is|keyParams|keyType|kind|label|lang|lis\nit|loading|loop|low|marginHeight|marginWidth|max|maxLength|media|mediaGroup|method|min|minLength|multiple|\nmuted|name|nonce|noValidate|open|optimum|pattern|placeholder|playsInline|poster|preload|profile|radioGroup|readO\nnly|referrerPolicy|rel|required|reversed|role|rows|rowSpan|sandbox|scope|scoped|scrolling|seamless|selected|shape|siz\n|sizes|slot|span|spellCheck|src|srcDoc|srcLang|srcSet|start|step|style|summary|tabIndex|target|title|translate|type|use\nMap|value|width|wmode|wrap|about|dataType|inList|prefix|property|resource|typeof|vocab|autoCapitalize|autoCorrect|\nautoSave|color|fallback|inert|itemProp|itemScope|itemType|itemID|itemRef|on|option|results|security|unselectable|ac\ncentHeight|accumulate|additive|alignmentBaseline|allowReorder|alphabetic|amplitude|arabicForm|ascend|attributeNa\nme|attributeType|autoReverse|azimuth|baseFrequency|baselineShift|baseProfile|bbox|begin|bias|by|calcMode|capHei\nght|clip|clipPathUnits|clipPath|clipRule|colorInterpolation|colorInterpolationFilters|colorProfile|colorRendering|cont\nentScriptType|contentType|cursor|cx|cy|d|decelerate|descent|diffuseConstant|direction|display|divisor|dominant\nBaseline|dur|dx|dy|edgeMode|elevation|enableBackground|end|exponent|externalResourcesRequired|fill|fillOpacity|fi\nllRule|filter|filterRes|filterUnits|floodColor|floodOpacity|focusable|fontFamily|fontSize|fontSizeAdjust|fontStretch|fo\nntStyle|fontVariant|fontWeight|format|from|fr|fx|fy|g1|g2|glyphName|glyphOrientationHorizontal|glyphOrientationV\nertical|glyphRef|gradientTransform|gradientUnits|hanging|horizAdvX|horizOriginX|ideographic|imageRendering|in|in\n2|intercept|k1|k2|k3|k4|kernelMatrix|kernelUnitLength|kerning|keyPoints|keySplines|keyTimes|lengthAdjust|letter\nSpacing|lightingColor|limitingConeAngle|local|markerEnd|markerMid|markerStart|markerHeight|markerUnits|marke\nrWidth|mask|maskContentUnits|maskUnits|mathematical|mode|numOctaves|offset|opacity|operator|order|orient|orien\ntation|origin|overflow|overflowPosition|overflowThickness|panose1|paintOrder|pathLength|patternContentUnits|patter\nnTransform|patternUnits|pointerEvents|points|pointsAtX|pointsAtY|pointsAtZ|preserveAlpha|preserveAspectRatio|p\nrimitiveUnits|r|radius|refX|refY|renderingIntent|repeatCount|repeatDur|requiredExtensions|requiredFeatures|restart|re
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sult|rotate|rx|ry|scale|seed|shapeRendering|slope|spacing|specularConstant|specularExponent|speed|spreadMethod|startOffset|stdDeviation|stemh|stemv|stitchTiles|stopColor|stopOpacity|strikethroughPosition|strikethroughThickness|string|stroke|strokeDasharray|strokeDashoffset|strokeLinecap|strokeLinejoin|strokeMiterlimit|strokeOpacity|strokeWidth|surfaceScale|systemLanguage|tableValues|targetX|targetY|textAnchor|textDecoration|textRendering|textLength|toTransform|u1|u2|underlinePosition|underlineThickness|unicode|unicodeBidi|unicodeRange|unitsPerEm|vAlphabetic|vHanging|vIdeographic|vMathematical|values|vectorEffect|version|vertAdvY|vertOriginX|vertOriginY|viewBox|viewTarget|visibility|widths|wordSpacing|writingMode|x|xHeight|x1|x2|xChannelSelector|xlinkActuate|xlinkArcrole|xlinkHref|xlinkRole|xlinkShow|xlinkTitle|xlinkType|xmlBase|xmlNs|xmlNsXlink|xmlLang|xmlSpace|y|y1|y2|yChannelSelector|z|zoomAndPan|for|class|autofocus)|([Dd][Aa][Tt][Aa][Aa][Rr][Ii][Aa]|x-.*))$;/
// https://esbench.com/bench/5bf6e68a4cd7e6009ef61d23\n\nvar isPropValid = /* #__PURE__ */ memoize(function (prop) {\n  return reactPropsRegex.test(prop) || prop.charCodeAt(0) === 111\n    /* o */\n    && prop.charCodeAt(1) === 110\n    /* n */\n    && prop.charCodeAt(2) < 91;\n  }\n  /* Z+1 */\n  );\n\nexport default isPropValid;\n", "// @flow\n\n// Source: https://www.w3.org/TR/cssom-1/#serialize-an-identifier\n// Control characters and non-letter first symbols are not supported\nconst escapeRegex = /[!\"#$%&'()*+,-./:;<=>?@[\\\\|\\]^\n{ }~]+/g;\nconst dashesAtEnds = /^(^-$)/g;\n\n/*\n * TODO: Explore using CSS.escape when it becomes more available\n * in evergreen browsers.\n */\nexport default function escape(str: string): string {\n  return (\n    str\n    // Replace all possible CSS selectors\n    .replace(escapeRegex, '-')\n    // Remove extraneous hyphens at the start and end\n    .replace(dashesAtEnds, '')\n  );\n}\n", "// @flow\n\nimport type { IStyledComponent } from './types';\n\nexport default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean %checks {\n  return (\n    typeof target === 'string' &&\n    (process.env.NODE_ENV !== 'production'\n      ? target.charAt(0) === target.charAt(0).toLowerCase()\n        : true)\n    );\n}\n", "// eslint-disable\n*/\n\nmixin-deep; https://github.com/jonschlinkert/mixin-deep\n\nInlined such that it will be consistently transpiled to an IE-compatible syntax.\n\nThe MIT License (MIT)\n\nCopyright (c) 2014-present, Jon Schlinkert.\n\nPermission is hereby granted, free of charge, to any person obtaining a copy\nof this software and associated documentation files (the "Software"), to deal\nin the Software without restriction, including without limitation the rights\nto use, copy, modify, merge, publish, distribute, sublicense, and/or sell\ncopies of the Software, and to permit persons to whom the Software is\nfurnished to do so, subject to the following conditions:\n\nThe above copyright notice and this permission notice shall be included in\nall copies or substantial portions of the Software.\n\nTHE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\nIMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\nFITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\nAUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\nLIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\nFROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\nIN THE SOFTWARE.\n\n*/\n\nconst isObject = val => {\n  return (\n    typeof val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val))\n  );\n};\n\nconst isValidKey = key => {\n  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';\n};\n\nfunction mixin(target, val, key) {\n  const obj = target[key];\n  if (isObject(val) && isObject(obj)) {\n    mixinDeep(obj, val);\n  } else {\n    target[key] = val;\n  }\n}\n\nexport default function mixinDeep(target, ...rest) {\n  for (const obj of rest) {\n    if (isObject(obj)) {\n      for (const key in obj) {\n        if (isValidKey(key)) {\n          mixin(target, obj[key], key);\n        }\n      }\n    }\n  }\n\n  return target;\n}\n", "// @flow\n\nimport validAttr from '@emotion/is-prop-valid';\nimport hoist from 'hoist-non-react-statics';\nimport React, { createElement, type Ref, useContext } from 'react';\nimport { SC_VERSION } from './constants';\nimport type {\n  Attrs,\n  IStyledComponent,\n  IStyledStatics,\n  RuleSet,\n  ShouldForwardProp,\n  Target,\n} from './types';\nimport { checkDynamicCreation } from './utils/checkDynamicCreation';\nimport createWarnTooManyClasses from './utils/createWarnTooManyClasses';\nimport determineTheme from './utils/determineTheme';\nimport
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    { EMPTY_ARRAY, EMPTY_OBJECT } from './utils/empties';\nimport escape from './utils/escape';\nimport
generateComponentId from './utils/generateComponentId';\nimport generateDisplayName from
 './utils/generateDisplayName';\nimport getComponentName from './utils/getComponentName';\nimport isFunction
from './utils/isFunction';\nimport isStyledComponent from './utils/isStyledComponent';\nimport isTag from
 './utils/isTag';\nimport joinStrings from './utils/joinStrings';\nimport merge from './utils/mixinDeep';\nimport
ComponentStyle from './ComponentStyle';\nimport { useStyleSheet, useStylis } from
 './StyleSheetManager';\nimport { ThemeContext } from './ThemeProvider';\n\nconst identifiers = {};\n\n/* We
depend on components having unique IDs */\nfunction generateId(displayName?: string, parentComponentId?:
string) {\n  const name = typeof displayName !== 'string' ? 'sc' : escape(displayName);\n  // Ensure that no
displayName can lead to duplicate componentIds\n  identifiers[name] = (identifiers[name] || 0) + 1;\n\n  const componentId = `${name}-${generateComponentId(\n
// SC_VERSION gives us isolation between multiple runtimes on the page at once\n  // this is improved further
with use of the babel plugin \"namespace\" feature\n  SC_VERSION + name + identifiers[name]\n )}`;\n\n  return
parentComponentId ? `${parentComponentId}-${componentId}` : componentId;\n}\n\nfunction
useResolvedAttrs<Config>(theme: any = EMPTY_OBJECT, props: Config, attrs: Attrs) {\n  // NOTE: can't
memoize this\n  // returns [context, resolvedAttrs]\n  // where resolvedAttrs is only the things injected by the attrs
themselves\n  const context = { ...props, theme }; \n  const resolvedAttrs = {};\n\n  attrs.forEach(attrDef => {\n  let
resolvedAttrDef = attrDef;\n  let key;\n\n  if (isFunction(resolvedAttrDef)) {\n    resolvedAttrDef =
resolvedAttrDef(context);\n  }\n\n  /* eslint-disable guard-for-in */\n  for (key in resolvedAttrDef) {\n
context[key] = resolvedAttrs[key] =\n    key === 'className'\n      ? joinStrings(resolvedAttrs[key],
resolvedAttrDef[key])\n      : resolvedAttrDef[key];\n  }\n  /* eslint-enable guard-for-in */\n});\n\n  return
[context, resolvedAttrs];\n}\n\nfunction useInjectedStyle<T>(\n  componentStyle: ComponentStyle,\n  isStatic:
boolean,\n  resolvedAttrs: T,\n  warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string,
string>)\n  {\n  const styleSheet = useStyleSheet();\n  const stylis = useStylis();\n\n  const className = isStatic\n  ?
componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)\n  :
componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n\n  if (process.env.NODE_ENV !==
'production' && !isStatic && warnTooManyClasses) {\n    warnTooManyClasses(className);\n  }\n\n  return
className;\n}\n\nfunction useStyledComponentImpl(\n  forwardedComponent: IStyledComponent,\n  props:
Object,\n  forwardedRef: Ref<any>,\n  isStatic:
boolean)\n  {\n  const {\n    attrs: componentAttrs,\n    componentStyle,\n    defaultProps,\n
foldedComponentIds,\n    shouldForwardProp,\n    styledComponentId,\n    target,\n  } = forwardedComponent;\n\n  // NOTE: the non-hooks version only subscribes to this when !componentStyle.isStatic,\n  // but that'd be against the
rules-of-hooks. We could be naughty and do it anyway as it\n  // should be an immutable value, but behave for
now.\n  const theme = determineTheme(props, useContext(ThemeContext), defaultProps);\n\n  const [context, attrs]
= useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);\n\n  const generatedClassName =
useInjectedStyle(\n    componentStyle,\n    isStatic,\n    context,\n    process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n  );\n\n  const refToForward = forwardedRef;\n\n  const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n\n  const isTargetTag =
isTag(elementToBeCreated);\n\n  const computedProps = attrs !== props ? { ...props, ...attrs } : props;\n  const propsForElement = {};\n\n  // eslint-
disable-next-line guard-for-in\n  for (const key in computedProps) {\n    if (key[0] === '$' || key === 'as') continue;\n  }
else if (key === 'forwardedAs') {\n    propsForElement.as = computedProps[key];\n  } else if (\n
shouldForwardProp\n    ? shouldForwardProp(key, validAttr, elementToBeCreated)\n    : isTargetTag\n  ) {\n
validAttr(key)\n    : true\n  ) {\n    // Don't pass through non HTML tags through to HTML elements\n
propsForElement[key] = computedProps[key];\n  }\n}\n\n  if (props.style && attrs.style !== props.style) {\n
propsForElement.style = { ...props.style, ...attrs.style }; \n  }\n\n  propsForElement.className = Array.prototype.\n
concat(\n    foldedComponentIds,\n    styledComponentId,\n    generatedClassName !== styledComponentId ?
generatedClassName : null,\n    props.className,\n

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    attrs.className\n    )\n    .filter(Boolean)\n    .join(' ');\n\n    propsForElement.ref = refToForward;\n\n    return\n    createElement(elementToBeCreated, propsForElement);\n\n\n\nexport default function createStyledComponent(\n
target: $PropertyType<IStyledComponent, 'target'>,\n
options: {\n
  attrs?: Attrs,\n
  componentId: string,\n
  displayName?: string,\n
  parentComponentId?: string,\n
  shouldForwardProp?: ShouldForwardProp,\n
},\n
rules:\n
RuleSet)\n
{\n
  const isTargetStyledComp = isStyledComponent(target);\n
  const isCompositeComponent =\n
  !isTag(target);\n\n
  const {\n
    attrs = EMPTY_ARRAY,\n
    componentId = generateId(options.displayName,\n
options.parentComponentId),\n
    displayName = generateDisplayName(target),\n
  } = options;\n\n
  const\n
  styledComponentId =\n
  options.displayName && options.componentId\n
  ? `${escape(options.displayName)}-\n
  ${options.componentId}`\n
  : options.componentId || componentId;\n\n
  // fold the underlying StyledComponent\n
  attrs up (implicit\n
  extend)\n
  const finalAttrs =\n
  isTargetStyledComp && ((target: any): IStyledComponent).attrs\n
  ?\n
  Array.prototype.concat(((target: any): IStyledComponent).attrs, attrs).filter(Boolean)\n
  : attrs;\n\n
  // eslint-\n
  disable-next-line prefer-destructuring\n
  let shouldForwardProp = options.shouldForwardProp;\n\n
  if\n
  (isTargetStyledComp && target.shouldForwardProp) {\n
    if (options.shouldForwardProp) {\n
      // compose\n
      nested shouldForwardProp calls\n
      shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n
      (((target: any): IStyledComponent).shouldForwardProp: any): ShouldForwardProp)(\n
      prop,\n
      filterFn,\n
      elementToBeCreated\n
      ) &&\n
      ((options.shouldForwardProp: any):\n
      ShouldForwardProp)(prop, filterFn, elementToBeCreated);\n
    } else {\n
      // eslint-disable-next-line prefer-\n
      destructuring\n
      shouldForwardProp = ((target: any): IStyledComponent).shouldForwardProp;\n
    }\n
  }\n\n
  const componentStyle =\n
  new ComponentStyle(\n
  rules,\n
  styledComponentId,\n
  isTargetStyledComp ? ((target:\n
  Object).componentStyle: ComponentStyle) : undefined\n
  );\n\n
  // statically styled-components don't need to build\n
  an execution context object,\n
  // and shouldn't be increasing the number of class names\n
  const isStatic =\n
  componentStyle.isStatic && attrs.length === 0;\n\n
  /**\n
  * forwardRef creates a new interim component, which\n
  we'll take advantage of\n
  * instead of extending ParentComponent to create _another_ interim class\n
  */\n
  let\n
  WrappedStyledComponent: IStyledComponent;\n\n
  const forwardRef = (props, ref) =>\n
  // eslint-disable-next-\n
  line\n
  useStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);\n\n
  forwardRef.displayName =\n
  displayName;\n\n
  WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);\n
  WrappedStyledComponent.attrs = finalAttrs;\n
  WrappedStyledComponent.componentStyle = componentStyle;\n
  WrappedStyledComponent.displayName\n
  = displayName;\n
  WrappedStyledComponent.shouldForwardProp = shouldForwardProp;\n\n
  // this static is used\n
  to preserve the cascade of static classes for component selector\n
  // purposes; this is especially important with usage\n
  of the css prop\n
  WrappedStyledComponent.foldedComponentIds = isTargetStyledComp\n
  ?\n
  Array.prototype.concat(\n
  ((target: any): IStyledComponent).foldedComponentIds,\n
  ((target: any):\n
  IStyledComponent).styledComponentId\n
  )\n
  : EMPTY_ARRAY;\n\n
  WrappedStyledComponent.styledComponentId = styledComponentId;\n\n
  // fold the underlying StyledComponent\n
  target up since we folded the styles\n
  WrappedStyledComponent.target = isTargetStyledComp\n
  ? ((target: any):\n
  IStyledComponent).target\n
  : target;\n\n
  WrappedStyledComponent.withComponent = function\n
  withComponent(tag: Target) {\n
    const { componentId: previousComponentId, ...optionsToCopy } = options;\n\n
    const newComponentId =\n
    previousComponentId &&\n
    `${previousComponentId}-${isTag(tag)\n
    ? tag : escape(getComponentName(tag))}`;\n\n
    const newOptions = {\n
      ...optionsToCopy,\n
      attrs:\n
      finalAttrs,\n
      componentId: newComponentId,\n
    };\n\n
    return createStyledComponent(tag, newOptions,\n
    rules);\n
  };\n\n
  Object.defineProperty(WrappedStyledComponent, 'defaultProps', {\n
    get() {\n
      return\n
      this._foldedDefaultProps;\n
    },\n
    set(obj) {\n
      this._foldedDefaultProps = isTargetStyledComp\n
      ?\n
      merge({}, ((target: any): IStyledComponent).defaultProps, obj)\n
      : obj;\n
    },\n
  });\n\n
  if\n
  (process.env.NODE_ENV !== 'production') {\n
    checkDynamicCreation(displayName, styledComponentId);\n
  }\n\n
  WrappedStyledComponent.warnTooManyClasses = createWarnTooManyClasses(\n
  displayName,\n
  styledComponentId\n
  );\n
}\n\n
// If the Object prototype is frozen, the "toString" property is non-writable. This

```

means that any objects which inherit this property\n // cannot have the property changed using an assignment. If using strict mode, attempting that will cause an error. If not using strict\n // mode, attempting that will be silently ignored.\n // However, we can still explicitly shadow the prototype's \"toString\" property by defining a new \"toString\" property on this object.\n Object.defineProperty(WrappedStyledComponent, 'toString', { value: () => `.\${WrappedStyledComponent.styledComponentId}` });\n\n if (isCompositeComponent) {\n hoist<\n IStyledStatics,\n \$PropertyType<IStyledComponent, 'target'>,\n { [key: \$Keys<IStyledStatics>]: true }\n >(WrappedStyledComponent, ((target: any): \$PropertyType<IStyledComponent, 'target'>), {\n // all SC-specific things should not be hoisted\n attrs: true,\n componentStyle: true,\n displayName: true,\n foldedComponentIds: true,\n shouldForwardProp: true,\n styledComponentId: true,\n target: true,\n withComponent: true,\n });\n }\n\n return WrappedStyledComponent;\n}\n\n", "//

@flow\nimport type { IStyledComponent } from './types';\nimport getComponentName from './getComponentName';\nimport isTag from './isTag';\n\nexport default function generateDisplayName(\n target: \$PropertyType<IStyledComponent, 'target'>:\n string {\n return isTag(target) ? `styled.\${target}` : `Styled(\${getComponentName(target)})`;\n}\n\n", "//\*\*\n \* Convenience function for joining strings to form className chains\n \* \n\nexport default function joinStrings(a: ?String, b: ?String): ?String {\n return a && b ? `\${a} \${b}` : a || b;\n}\n\n", "// @flow\nimport constructWithOptions from './constructWithOptions';\nimport StyledComponent from './models/StyledComponent';\nimport domElements from './utils/domElements';\n\nimport type { Target } from './types';\n\nconst styled = (tag: Target) => constructWithOptions(StyledComponent, tag);\n\n// Shorthands for all valid HTML Elements\n\nconst domElements = domElements.forEach(domElement => {\n styled[domElement] = styled(domElement);\n});\n\nexport default styled;\n\n", "//

@flow\nimport { isValidElementType } from 'react-is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport { EMPTY\_OBJECT } from './utils/empties';\n\nimport type { Target } from './types';\n\nexport default function constructWithOptions(\n componentConstructor: Function,\n tag: Target,\n options: Object = EMPTY\_OBJECT\n) {\n if (!isValidElementType(tag)) {\n return throwStyledError(1, String(tag));\n }\n\n /\* This is callable directly as a template function \* \n // \$FlowFixMe: Not typed to avoid destructuring arguments\n const templateFunction = (...args) => componentConstructor(tag, options, css(...args));\n\n /\* If config methods are called, wrap up a new template function and merge options \* \n\n templateFunction.withConfig = config =>\n constructWithOptions(componentConstructor, tag, { ...options, ...config });\n\n /\* Modify/inject new props at runtime \* \n\n templateFunction.attrs = attrs =>\n constructWithOptions(componentConstructor, tag, {\n ...options,\n attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),\n });\n\n return templateFunction;\n}\n\n", "// @flow\nimport \* as secondary from './base';\n\n/\* Import singleton constructors \* \n\nimport styled from './constructors/styled';\n\n/\*\*\n \* eliminates the need to do styled.default since the other APIs\n \* are directly assigned as properties to the main function\n \* \n\n// eslint-disable-next-line guard-for-in\nfor (const key in secondary) {\n styled[key] = secondary[key];\n}\n\nexport default styled;\n\n", "// @flow\n// Thanks to ReactDOMFactories for this handy list!\n\nexport default [\n 'a',\n 'abbr',\n 'address',\n 'area',\n 'article',\n 'aside',\n 'audio',\n 'b',\n 'base',\n 'bdi',\n 'bdo',\n 'big',\n 'blockquote',\n 'body',\n 'br',\n 'button',\n 'canvas',\n 'caption',\n 'cite',\n 'code',\n 'col',\n 'colgroup',\n 'data',\n 'datalist',\n 'dd',\n 'del',\n 'details',\n 'dfn',\n 'dialog',\n 'div',\n 'dl',\n 'dt',\n 'em',\n 'embed',\n 'fieldset',\n 'figcaption',\n 'figure',\n 'footer',\n 'form',\n 'h1',\n 'h2',\n 'h3',\n 'h4',\n 'h5',\n 'h6',\n 'head',\n 'header',\n 'hgroup',\n 'hr',\n 'html',\n 'i',\n 'iframe',\n 'img',\n 'input',\n 'ins',\n 'kbd',\n 'keygen',\n 'label',\n 'legend',\n 'li',\n 'link',\n 'main',\n 'map',\n 'mark',\n 'marquee',\n 'menu',\n 'menuitem',\n 'meta',\n 'meter',\n 'nav',\n 'noscript',\n 'object',\n 'ol',\n 'optgroup',\n 'option',\n 'output',\n 'p',\n 'param',\n 'picture',\n 'pre',\n 'progress',\n 'q',\n 'rp',\n 'rt',\n 'ruby',\n 's',\n 'samp',\n 'script',\n 'section',\n 'select',\n 'small',\n 'source',\n 'span',\n 'strong',\n 'style',\n 'sub',\n 'summary',\n 'sup',\n 'table',\n 'tbody',\n 'td',\n 'textarea',\n 'tfoot',\n 'th',\n 'thead',\n 'time',\n 'title',\n 'tr',\n 'track',\n 'u',\n 'ul',\n 'var',\n 'video',\n 'wbr',\n\n // SVG\n 'circle',\n 'clipPath',\n 'defs',\n

'ellipse',\n 'foreignObject',\n 'g',\n 'image',\n 'line',\n 'linearGradient',\n 'marker',\n 'mask',\n 'path',\n 'pattern',\n 'polygon',\n 'polyline',\n 'radialGradient',\n 'rect',\n 'stop',\n 'svg',\n 'text',\n 'textPath',\n 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nterleaveWi

thNodeStream","input","REACT\_STATICS","childContextTypes","contextType","contextTypes","displayName","getDefaultProps","getDerivedStateFromError","getDerivedStateFromProps","mixins","propTypes","type","KNOW\_N\_STATICS","caller","callee","arguments","arity","MEMO\_STATICS","\$\$typeof","TYPE\_STATICS","getStatics","component","reactIs","isMemo","ForwardRef","render","Memo","defineProperty","getOwnPropertyNames","getOwnPropertySymbols","getOwnPropertyDescriptor","getPrototypeOf","objectPrototype","hoistNonReactStatics","targetComponent","sourceComponent","blacklist","inheritedComponent","concat","targetStatics","sourceStatics","descriptor","\_\_PRIVATE\_\_","generateComponentId","JSON","stringify","globalStyle","GlobalStyleComponent","useRef","current","useLayoutEffect","determineTheme","memo","outerTheme","themeContext","mergeTheme","Component","WithTheme","forwardRef","ref","themeProp","hoistStatics","memoize","fn","cache","create","reactPropsRegex","isPropValid","prop","escapeRegex","dashesAtEnds","escape","isTag","isObject","val","isValidKey","mixin","mixinDeep","rest","identifiers","createStyledComponent","isTargetStyledComp","isCompositeComponent","attrs","parentComponentId","generatedId","generateDisplayName","finalAttrs","shouldForwardProp","filterFn","elementTypeToBeCreated","WrappedStyledComponent","componentStyle","forwardedComponent","forwardedRef","componentAttrs","foldedComponentIds","resolvedAttrs","attrDef","resolvedAttrDef","useResolvedAttrs","generatedClassName","warnTooManyClasses","useInjectedStyle","refToForward","\$as","as","isTargetTag","computedProps","propsForElement","validAttr","className","withComponent","previousComponentId","optionsToCopy","newComponentId","getComponentName","\_foldedDefaultProps","merge","hoist","styled","constructWithOptions","componentConstructor","isValidElementType","templateFunction","withConfig","config","StyledComponent","domElement","secondary"],"mappings":":sUACe,SAASA,EAakBC,UACjCA,GAA8C,iBAA7BA,EAAOC,iCCE/BC,EACAC,WAE MC,EAAS,CAACF,EAAQ,IAEfG,EAAI,EAAGC,EAAMH,EAAeI,OAAQF,EAAIC,EAAKD,GAAC,EACzDD,EAAOI,KAAKL,EAAeE,GAaiH,EAAQG,EAAI,WAGtCD,cCVOK,UACR,OAANA,GACa,iBAANA,GAC6D,qBAAnEA,EAAEC,SAAWD,EAAEC,WAAaC,OAAOC,UAAUF,SAASG,KAAKJ,MAC3DK,SA AOL,ICNGM,EAACJ,OAAOK,OAAO,IAC5BC,EAAeN,OAAOK,OAAO,ICD3B,SAASE,EAAWC,SACV,mBAATA,iNCGT,IAAMC,EACS,oBAAZC,cACiB,IAAhBA,QAAQC,MACdD,QAAQC,IAAIC,mBAAqBF,QAAQC,IAAIF,UACHD,cAOWI,EAA+B,oBAAXC,QAA0B,gBAAiBA,OAE/DC,EAAiBC,QACC,kBAAtBC,kBACHA,kBACmB,oBAAZP,cAAkD,IAAhBA,QAAQC,WACE,IAA5CD,QAAQC,IAAIO,6BACyB,KAA5CR,QAAQC,IAAIO,4BACkC,UAA5CR,QAAQC,IAAIO,6BAEVR,QAAQC,IAAIO,iCAC2B,IAAICR,QAAQC,IAAIM,mBAAuE,KAAICP,QAAQC,IAAIM,mBACIC,UAAICP,QAAQC,IAAIM,mBAEVP,QAAQC,IAAIM,oBAMTE,EAA2B,GCTzB,SAASC,EACtBC,8BACG7B,mCAAAA,0BAGK,IAAI8B,qDACuCD,4BAC7C7B,EAAeI,OAAS,YAAcJ,EAAe+B,KAAK,MAAU,KC1BrE,IAMDC,wBAOQC,QACLC,WAAa,IAAIC,YAVR,UAWT/B,OAXS,SAYT6B,IAAMA,6BAGbG,aAAA,SAAaC,WACPC,EAAQ,EACHpC,EAAI,EAAGA,EAAImC,EAAOnC,IACzBoC,GAASC,KAAKL,WAAWhC,UAGpBoC,KAGTE,YAAA,SAAyH,EAAeI,MACrBJ,GAASE,KAAKL,WAAW9B,OAAQ,SAC7BsC,EAAyH,KAAKL,WACjBS,EAAUD,EAAUtC,OAEtBwC,EAAUD,EACPN,GAASO,IACdA,IAAY,GACE,GACZC,EAAiB,MAOR,QAIvBH,WAAa,IAAIC,YAAYS,QAC7BV,WAAWY,IAAIJ,QACfC,OAASwC,MAET,IAAIIC,EAAIyC,EAA SzC,EAAI0C,EAAS1C,SAC5BgC,WAAWhC,GAAC,UAIrB6C,EAAYR,KAAKH,aAAaC,EAAQ,GACjCnC,EAA I,EAAG8C,EAAIP,EAAMrC,OAAQF,EAAI8C,EAAG9C,IACnCqC,KAAKN,IAAIgB,WAAWF,EAAWN,EAAM vC,WACICgC,WAAWG,KACHBU,QAKNG,WAAA,SAAWb,MACLA,EAAQE,KAAKnC,OAAQ,KACjBA,EAA SmC,KAAKL,WAAWG,GACzBc,EAAaZ,KAAKH,aAAaC,GAC/Be,EAAWD,EAAa/C,OAeZB8B,WAAWG,GAS,MAEpB,IAAIc,EAAId,EAAyJd,EAAIkD,EAAUID,SACc+B,IAAIoB,WAAWF,OAK1BG,SAAS,SAASj B,OACHkB,EAAM,MACNIB,GAASE,KAAKnC,QAAqC,IAA3BmC,KAAKL,WAAWG,UACnCb,UAGHnD,E AASmC,KAAKL,WAAWG,GACzBc,EAAaZ,KAAKH,aAAaC,GAC/Be,EAAWD,EAAa/C,EAERBF,EAAId,EA AYjD,EAAIkD,EAAUID,IACrCqD,GAAUhB,KAAKN,IAAIuB,QAAQID,GF9ET,mBEiFbqD,QCzFPE,EAAuC,IAAIC,IAC3CC,EAAuC,IAAID,IAC3CE,EAAgB,EAQPC,EAAgB,SAACC,MACxBL,EAAgBM,IAAID,UACdL,EAAGBO,IAAIF,QAGvBH,EAAgBI,IAAIH,IACzBA,QAGIvB,EAAQuB,WASdH,EAAgBX,IAAIgB,EAAIzB,GACxBS,EAAgBb,IAAIT,EAAOyB,GACpBzB,GAGI4B,EAAgB,SAAC5B,UACrBsB,EAAgBK,IAAI3B,IAGhB6B,EAAgB,SAACJ,EAAyZB,GACpCA,GAASuB,IACXA,EAAgBvB,EAAQ,GAG1BoB,EAAgBX,IAAIgB,EAAIzB,GACxBS,EAAgBb,IAAIT,EAAOyB,IC3CvBK,WAAoBID,oCACpBmD,EAAY,IAAIC,WAAWpD,kDAkC3BqD,EAA4B,SAACC,EAAcT,EAAYU,WAEvDC,EADEC,EAAQF,EAAQG,MAAM,KAGnBzE,EAAI,EAAG8C,EA

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IG,EAAID,EAAIH,IAAM,IAAMC,IAAMuB,EAAI,KAAOvB,EAAI,GA AK,IAAKG,EAAID,EAAIH,EAAI,EAA G2B,IAAKc,KAExF,IAAMx C,EAAIG,EAAID,EAAIH,EAAG,CACvB,GAAlrJ,IAAM8L,IAAM,EAAIH,IAAMI, EAAIA,EAAE9E,QAAQgF,EAAG,KAAM,EAAIF,EAAE7J,OAAO9E,QAAS,CACrE,OAAQyN,GACN,KAAK,G ACL,KAAK,EA CL,KAAK,GACL,KAAK,GACL,KAAK,GACH,MAEF,QACEkB,GA AK7C,EAAEgD,OAAOIM, GAGIB6K,EAAI,GAGN,OAAQA,GACN,KAAK,IAXH,IAHAD,GADAmB,EAAIA,EAAE7J,QACAKF,WAAW, GACjBkE,EAAI,EAECO,IAAM7L,EAAGA,EAAIgL,GA AI,CACpB,OAAQH,EAAI3B,EAAE9B,WAAWpH,IAC vB,KAAK,IACHsL,IACA,MAEF,KAAK,IACHA,IACA,MAEF,KAAK,GACH,OAAQT,EAAI3B,EAAE9B,WAA WpH,EAAI,IAC3B,KAAK,GACL,KAAK,GACHoJ,EAAG,CACD,IAAKsC,EAAI1L,EAAI,EAAG0L,EAAII,IAA KJ,EACvB,OAAQxC,EAAE9B,WAAWsE,IACnB,KAAK,GACH,GA AI,KAAOb,GA AK,KAAO3B,EAAE9B,WAA WsE,EAAI,IAAM1L,EAAI,IAAM0L,EAAG,CACzD1L,EAAI0L,EAAI,EACR,MAAMtC,EAGR,MAEF,KAAK, GACH,GA AI,KAAOyB,EAAG,CACZ7K,EAAI0L,EAAI,EACR,MAAMtC,GAMdpJ,EAAI0L,GAKV,MAEF,KA AK,GACHb,IAEF,KAAK,GACHA,IAEF,KAAK,GACL,KAAK,GACH,KAAO7K,IAAM8L,GA AK5C,EAAE9B, WAAWpH,KAAO6K,KAK1C,GA AI,IAAMS,EAAG,MACbtL,IAMF,OAHasL,EAAIpC,EAAEW,UAAUgC,EA AG7L,GACnB,IAAM4K,IAAMA,GA AKmB,EAAIA,EAAE9E,QAAQkF,EAAI,IAAIjK,QAAQkF,WAAW,IAEID wD,GACN,KAAK,GA IH,OAHA,EAAIe,IAAMI,EAAIA,EAAE9E,QAAQgF,EAAG,KAC3BpB,EAAIkB,EAAE3 E,WAAW,IAGf,KAAK,IACL,KAAK,IACL,KAAK,IACL,KAAK,GACHuE,EAAI1C,EACJ,MAEF,QACE0C,EA AIS,EAMR,GAFAP,GADAP,EAAID,EAAEpC,EAAG0C,EAAGL,EAAGT,EAAGzB,EAAI,IACHBhM,OACN,E AAI0N,IAAsBU,EAAIb,EAAE,EAAGW,EA AzBK,EAAI5C,EAAEgD,EAAGL,EAAGH,GA AmB3C,EAAGkC,E AAGC,EAAGS,EAAGhB,EAAGzB,EAAGjC,GA AI4E,EAAIJ,EAAE5M,KAAK,SAAK,IAAWyM,GA AK,KAAO K,GA AKP,EAAIE,EAAEtJ,QAAQ9E,UAA YyN,EAAI,EAAGS,EAAI,KAC5I,EAAIO,EAAG,OAAQhB,GACjB, KAAK,IACHkB,EAAIA,EAAE9E,QAAQoF,EAAI5B,GA EpB,KAAK,IACL,KAAK,IACL,KAAK,GACHa,EAAI S,EAAI,IAAMT,EAAI,IACIB,MAEF,KAAK,IAEHA,GADAS,EAAIA,EAAE9E,QAAQqF,EAAI,UACV,IAAMh B,EAAI,IACIBA,EAAI,IAAMxB,GA AK,IAAMA,GA AKC,EAAE,IAAMuB,EAAG,GA AK,YAAcA,EAAI,IAAM A,EAAI,IAAMA,EAC5E,MAEF,QACEA,EAAIS,EAAIT,EAAG,MAAQnE,IAAW6E,GA AKV,EA AVA,EA Aa,S ACnCA,EAAI,GACX,MAEF,QACEA,EAAID,EAAEpC,EAAGF,EAAEE,EAAG8C,EAAGH,GA AIN,EAAGnE,E AAGiC,EAAI,GAGnCM,GA AK4B,EACLA,EAAIM,EAAID,EAAID,EAAId,EAAI,EACpBmB,EAAI,GACJIB,E AAI3B,EAAE9B,aAAapH,GACnB,MAEF,KAAK,IACL,KAAK,GA EH,GA AI,GA AK6L,GADTE,GA AK,EAAIJ, EAAII,EAAE9E,QAAQgF,EAAG,IAAMF,GAAG7J,QACpB9E,QAAS,OAAQ,IAAMsO,IAAMd,EAAImB,EAAE 3E,WAAW,GA AI,KAAOwD,GA AK,GA AKa,GA AK,IAAMA,KAAOiB,GA AKKE,EAAIA,EAAE9E,QAAQ,IAA K,MAAM7J,QAAS,EAAI0N,QA AK,KAA YU,EAAIb,EAAE,EAAGoB,EAAG9C,EAAGD,EAAGmC,EAAGC,E AAGY,EAAE5O,OAAQ+J,EAAGiC,EAAGjC,KAAO,KAAO0E,GA AKKE,EAAIP,EAAEtJ,QAAQ9E,UAA Y2O,E AAI,QAAanB,EAAImB,EAAE3E,WAAW,GA AIyD,EAAIkB,EAAE3E,WAAW,GA AIwD,GAC9S,KAAK,EACH ,MAEF,KAAK,GACH,GA AI,MAAQC,GA AK,KAAOA,EAAG,CACzBV,GA AK4B,EAAI7C,EAAEgD,OAAOIM ,GACIB,MAGJ,QACE,KAAO+L,EAAE3E,WAAWyE,EAAI,KAAOG,GA AKpC,EAAEmC,EAAGnB,EAAGC,E AAGkB,EAAE3E,WAAW,KA EhEwE,EAAID,EAAID,EAAId,EAAI,EACHBmB,EAAI,GACJIB,EAAI3B,EAAE9 B,aAAapH,IAIzB,OAAQ6K,GACN,KAAK,GACL,KAAK,GACH,KAAOvB,EAAIA,EAAI,EAAI,IAAM,EAAIsB, GA AK,MAAQzD,GA AK,EAAI4E,EAAE3O,SAAWuO,EAAI,EAAGI,GA AK,MAC5E,EAAIjB,EAAIyB,GA AK5 B,EAAE,EAAGoB,EAAG9C,EAAGD,EAAGmC,EAAGC,EAAGY,EAAE5O,OAAQ+J,EAAGiC,EAAGjC,GACj DiE,EAAI,EACJD,IACA,MAEF,KAAK,GACL,KAAK,IACH,GA AI,IAAM7B,EAAIG,EAAID,EAAIH,EAAG,C ACvB+B,IACA,MAGJ,QAIE,OAHA,A,IACAG,EAAIrC,EAAEgD,OAAOIM,GA EL6K,GACN,KAAK,EA CL,KA AK,GACH,GA AI,IAAMpB,EAAIJ,EAAIC,EAAG,OAAQhM,GAC3B,KAAK,GACL,KAAK,GACL,KAAK,EAC L,KAAK,GACHiO,EAAI,GACJ,MAEF,QACE,KAAOV,IAAMU,EAAI,KA ErB,MAEF,KAAK,EACHA,EAAI,M ACJ,MAEF,KAAK,GACHA,EAAI,MACJ,MAEF,KAAK,GACHA,EAAI,MACJ,MAEF,KAAK,GACH,IAAM9B, EAAIH,EAAID,IAAMsC,EAAIC,EAAI,EAAGL,EAAI,KAAOA,GAC1C,MAEF,KAAK,IACH,GA AI,IAAM9B,E AAIH,EAAID,EAAImD,GA AK,EAAId,EAAG,OAAQ1L,EAAI0L,GAC5C,KAAK,EACH,MAAQpO,GA AK,KA AO4L,EAAE9B,WAAWpH,EAAI,KAAOwM,EAAIIP,GA EID,KAAK,EACH,MAAQmO,IAAMe,EAAIf,GA EtB, MAEF,KAAK,GACH,IAAMhC,EAAIH,EAAID,IAAMqC,EAAI1L,GACxB,MAEF,KAAK,GACH,IAAMsJ,EAAI E,EAAIC,EAAIJ,IAAMsC,EAAI,EAAGJ,GA AK,MACpC,MAEF,KAAK,GACL,KAAK,GACH,IAAMjC,IAAMG

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No license file was found, but licenses were detected in source scan.

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```

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by alphabet-length */\n for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n  name =
getAlphabeticChar(x % charsLength) + name;\n } \n\n return (getAlphabeticChar(x % charsLength) +
name).replace(AD_REPLACER_R, '$1-$2');\n}\n", "// @flow\n/* eslint-disable */\n\nexport const SEED =
5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that
we're still looping over\n// the same string\nexport const phash = (h: number, x: string): number => {\n  let i =
x.length;\n\n  while (i) {\n    h = (h * 33) ^ x.charCodeAt(--i);\n  }\n\n  return h;\n};\n\n// This is a djb2 hashing
function\nexport const hash = (x: string): number => {\n  return phash(SEED, x);\n};\n", "// @flow\n/* eslint-disable
*/\n\nimport generateAlphabeticName from './generateAlphabeticName';\nimport { hash } from './hash';\n\nexport
default (str: string): string => {\n  return generateAlphabeticName(hash(str) >>> 0);\n};\n", "// @flow\nimport type {
IStyledComponent } from './types';\n\nexport default function getComponentName(\n  target:
$PropertyType<IStyledComponent, 'target'>): string {\n  return (\n    (process.env.NODE_ENV !== 'production' ?
typeof target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  );\n}\n", "// @flow\nexport default function isFunction(test: any): boolean %checks
{\n  return typeof test === 'function';\n}\n", "// @flow\nexport default function isStatelessFunction(test: any):
boolean {\n  return (\n    typeof test === 'function'\n    && !(\n      test.prototype\n      &&
test.prototype.isReactComponent\n    )\n  );\n}\n", "// @flow\nimport { typeOf } from 'react-is';\n\nexport default (x:
any): boolean => {\n  x !== null &&\n    typeof x === 'object' &&\n    (x.toString ? x.toString()):
Object.prototype.toString.call(x) === '[object Object]' &&\n    !typeOf(x);\n}\n", "// @flow\nexport default function
isStyledComponent(target:
any): boolean %checks {\n  return target && typeof target.styleComponentId === 'string';\n}\n", "//
@flow\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\n\ndeclare var __VERSION__: string;\n\nexport const
SC_ATTR: string =\n  (typeof process !== 'undefined' &&\n    typeof process.env !== 'undefined' &&\n
(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n  'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const
SC_VERSION = __VERSION__;\n\nexport const SPLITTER = '/*!sc*/\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n  typeof
SC_DISABLE_SPEEDY === 'boolean'\n  ? SC_DISABLE_SPEEDY\n  : typeof process !== 'undefined' &&
typeof process.env !== 'undefined'\n  ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'
&&\n    process.env.REACT_APP_SC_DISABLE_SPEEDY !== "\n  ?
process.env.REACT_APP_SC_DISABLE_SPEEDY
=== 'false'\n  ? false\n  : process.env.REACT_APP_SC_DISABLE_SPEEDY\n  : typeof
process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== "\n  ?
process.env.SC_DISABLE_SPEEDY === 'false'\n  ? false\n  : process.env.SC_DISABLE_SPEEDY\n  :
process.env.NODE_ENV !== 'production'\n  : false);\n}\n\n// Shared empty execution context when generating
static styles\nexport const STATIC_EXECUTION_CONTEXT = {};\n", "// @flow\nexport const EMPTY_ARRAY =
Object.freeze([]);\n\nexport const EMPTY_OBJECT = Object.freeze({});\n", "export default {"1": "Cannot create
styled-component for component: %s.\n\n", "2": "Can't collect styles once you've consumed a
`ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you
trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n", "3": "Streaming SSR
is only supported in a Node.js environment;\n\nPlease do not try to call this method in the browser.\n\n", "4": "The `StyleSheetManager` expects a valid target
or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n- Does this error occur on the
server and is the sheet falsy?\n\n", "5": "The clone method cannot be used on the client!\n\n- Are you running in
a client-like environment on the server?\n- Are you trying to run SSR on the client?\n\n", "6": "Trying to insert a
new style tag, but the given Node is unmounted!\n\n- Are you using a custom target that isn't mounted?\n- Does
your document not have a valid head element?\n- Have you accidentally removed a style tag
manually?\n\n", "7": "ThemeProvider: Please return an object from your `theme` prop function,
e.g.\n\n`js\ntheme={() => ({})}\n`\n\n", "8": "ThemeProvider: Please make your `theme` prop an

```

object.`Missing document <head>` Cannot find a StyleSheet instance.

Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how to troubleshoot and fix the common cases where this situation can happen: <https://github.com/styled-components/styled-components/issues/1941#issuecomment-417862021>. This error was replaced with a dev-time warning, it will be deleted for v4 final. `[createGlobalStyle]` received children which will not be rendered. Please use the component without passing children elements. It seems you are interpolating a keyframe declaration (`%s`) into an untagged string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected on-demand. Please wrap your string in the `css`` helper which ensures the styles are injected correctly. See <https://www.styled-components.com/docs/api#css>. `%s` is not a styled component and cannot be referred to via component selector. See <https://www.styled-components.com/docs/advanced#referring-to-other-components>

`ThemeProvider`: `theme` prop is required. A stylis plugin has been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager stylisPlugins={}>`, please make sure each plugin is uniquely-named,

e.g. `Object.defineProperty(importedPlugin, 'name', { value: 'some-unique-name'`

`});` Reached the limit of how many styled components may be created at group `%s`. You may only create up to 1,073,741,824 components. If you're creating components dynamically, as for instance in your

render method then you may be running into this limitation. `CSSStyleSheet` could not be found on `HTMLStyleElement`. Has styled-components' style tag been unmounted or altered by another script?

```
@flow\nimport errorMap from './errors';\nconst ERRORS = process.env.NODE_ENV !== 'production' ?\nerrorMap : {};\n/**\n * super basic version of sprintf\n * ^\nfunction format(...args) {\n  let a = args[0];\n  const b =\n    [];\n  for (let c = 1, len = args.length; c < len; c += 1) {\n    b.push(args[c]);\n  }\n  b.forEach(d => {\n    a =\n      a.replace(/%[a-z]/, d);\n  });\n  return a;\n}\n/**\n * Create an error file out of errors.md for development and a\n * simple web link to the full errors\n * in production mode.\n * ^\nexport default function
```

```
throwStyledComponentsError(\n  code: string | number,\n  ...interpolations: Array<any>)\n) {\n  if\n  (process.env.NODE_ENV === 'production') {\n    throw new Error(\n      `An error occurred. See\n      https://git.io/JUIaE#${code} for more information.$\n      interpolations.length > 0 ? ` Args:
```

```
${interpolations.join(', ')} : "\n  )\n  );\n  } else {\n    throw new Error(format(ERRORS[code],\n    ...interpolations).trim());\n  }\n}\n",
```

```
@flow\n/* eslint-disable no-use-before-define */\nimport type { GroupedTag, Tag } from './types';\nimport {\n  SPLITTER\n} from './constants';\nimport throwError from './utils/error';\n/** Create a GroupedTag with an\n * underlying Tag implementation\n * ^\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n  return new\n  DefaultGroupedTag(tag);\n};\nconst BASE_SIZE = 1 << 9;\nconst class DefaultGroupedTag implements\nGroupedTag {\n  groupSizes: Uint32Array;\n  length: number;\n  tag: Tag;\n  constructor(tag: Tag) {\n    this.groupSizes = new Uint32Array(BASE_SIZE);\n    this.length = BASE_SIZE;\n    this.tag = tag;\n  }\n  indexOfGroup(group: number): number {\n    let index = 0;\n    for (let i = 0; i < group; i++) {\n      index +=\n      this.groupSizes[i];\n    }\n    return index;\n  }\n  insertRules(group: number, rules: string[]): void {\n    if (group\n    >= this.groupSizes.length) {\n      const oldBuffer = this.groupSizes;\n      const oldSize = oldBuffer.length;\n      let newSize = oldSize;\n      while (group >= newSize) {\n        newSize <= 1;\n        if (newSize < 0) {\n          throwError(16, `${group}`);\n        }\n        this.groupSizes = new Uint32Array(newSize);\n        this.groupSizes.set(oldBuffer);\n        this.length = newSize;\n        for (let i = oldSize; i < newSize; i++) {\n          this.groupSizes[i] = 0;\n        }\n        let ruleIndex = this.indexOfGroup(group + 1);\n        for (let i = 0, l =\n        rules.length; i < l; i++) {\n          if (this.tag.insertRule(ruleIndex, rules[i])) {\n            this.groupSizes[group]++;;\n            ruleIndex++;;\n          }\n        }\n        clearGroup(group: number): void {\n          if (group < this.length) {\n            const\n            length = this.groupSizes[group];\n            const startIndex = this.indexOfGroup(group);\n            const endIndex =\n            startIndex + length;\n            this.groupSizes[group] = 0;\n            for (let i = startIndex; i < endIndex; i++) {\n              this.tag.deleteRule(startIndex);\n            }\n          }\n        }\n      }\n    }\n  }\n}
```



```

    }\n }\n\n getGroup(group: number): string {\n let css = ""; \n if (group >= this.length || this.groupSizes[group]
=== 0) {\n return css;\n }\n\n const length = this.groupSizes[group]; \n const startIndex =
this.indexOfGroup(group);\n const endIndex = startIndex + length;\n for (let i = startIndex; i < endIndex; i++)
{\n css += `${this.tag.getRule(i)}${SPLITTER}`;\n }\n\n return css;\n }\n\n", "// @flow\n\nimport
throwStyledError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister: Map<string,
number> = new Map();\nlet reverseRegister: Map<number, string> = new Map();\nlet nextFreeGroup = 1;\n\nexport
const resetGroupIds = () => {\n groupIDRegister = new Map();\n reverseRegister = new Map();\n nextFreeGroup
= 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n if (groupIDRegister.has(id)) {\n return
(groupIDRegister.get(id): any);\n }\n\n while (reverseRegister.has(nextFreeGroup)) {\n nextFreeGroup++;\n
}\n\n const group = nextFreeGroup++;\n\n if (\n process.env.NODE_ENV !== 'production' &&\n ((group | 0)
< 0 || group > MAX_SMI)\n ) {\n throwStyledError(16, `${group}`);\n }\n\n groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n return group;\n};\n\nexport const getIdForGroup = (group: number): void | string
=> {\n return reverseRegister.get(group);\n};\n\nexport const setGroupForId = (id: string, group: number) => {\n if
(group >= nextFreeGroup) {\n nextFreeGroup = group + 1;\n }\n\n groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n};\n\n", "// @flow\n\nimport { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE,
SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport { getIdForGroup, setGroupForId } from
'./GroupIDAllocator';\nimport type { Sheet } from './types';\n\nconst SELECTOR =
`style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`; \n\nconst MARKER_RE = new
RegExp(`^${SC_ATTR}\\\\\\\\.g(\\\\\\\\d+)(\\\\\\\\[id=\\\"(\\\\\\\\w\\\\\\\\d-)+\\\"]\\\\\\\\.?!\"([\\^\"\\*])`);\n\nexport
const outputSheet = (sheet: Sheet) => {\n const tag = sheet.getTag(); \n const { length } = tag;\n let css = "";
for (let group = 0; group < length; group++) {\n const id = getIdForGroup(group);\n if (id === undefined)
continue;\n\n const names = sheet.names.get(id);\n const rules = tag.getGroup(group);\n if (!names || !rules ||
!names.size) continue;\n\n const selector = `${SC_ATTR}.g${group}[id=\\\"${id}\\\"]`; \n let content = ""; \n if
(names !== undefined) {\n names.forEach(name => {\n if (name.length > 0) {\n content +=
`${name},`;\n }\n });\n\n // NOTE: It's easier to collect rules and have the marker\n // after the
actual rules to simplify the rehydration\n css += `${rules}${selector}{content:\\\"${content}\\\"}${SPLITTER}`;\n
}\n\n return css;\n};\n\nconst rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n const
names = content.split(','); \n let name;\n\n for (let i = 0, l = names.length; i < l; i++) {\n // eslint-disable-next-line\n if ((name = names[i])) {\n
sheet.registerName(id, name);\n }\n }\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:
HTMLStyleElement) => {\n const parts = (style.textContent || "").split(SPLITTER);\n const rules: string[] = [];\n\n
for (let i = 0, l = parts.length; i < l; i++) {\n const part = parts[i].trim(); \n if (!part) continue;\n\n const marker =
part.match(MARKER_RE);\n\n if (marker) {\n const group = parseInt(marker[1], 10) | 0; \n const id =
marker[2]; \n if (group !== 0) {\n // Rehydrate componentId to group index mapping\n
setGroupForId(id, group);\n // Rehydrate names and rules\n // looks like: data-
styled.g11[id="idA"]{content:"nameA,"} \n rehydrateNamesFromContent(sheet, id, marker[3]); \n
sheet.getTag().insertRules(group, rules);\n }\n\n rules.length = 0; \n } else {\n rules.push(part);\n
}\n }\n};\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n const nodes =
document.querySelectorAll(SELECTOR);\n\n for (let i = 0, l = nodes.length; i < l; i++) {\n const node =
((nodes[i]: any): HTMLStyleElement); \n if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)
{\n rehydrateSheetFromTag(sheet, node);\n\n if (node.parentNode) {\n
node.parentNode.removeChild(node);\n }\n }\n }\n\n", "// @flow\n\n/* eslint-disable camelcase, no-undef
*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n return typeof __webpack_nonce__
!== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n\n", "// @flow\n\nimport { SC_ATTR,
SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from
'./utils/nonce';\nimport throwStyledError from './utils/error';\n\nconst ELEMENT_TYPE = 1; \n\nNode.ELEMENT_TYPE *\n\n/** Find last style element if any inside target *\n\nconst findLastStyleTag

```

```

= (target: HTMLElement): void | HTMLStyleElement => {\n  const { childNodes } = target;\n  for (let i =
childNodes.length; i >= 0; i--) {\n    const child = ((childNodes[i]: any): ?HTMLElement);\n    if (child &&
child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n      return ((child: any):
HTMLStyleElement);\n    }\n  }\n  return undefined;\n};\n\n/** Create a style element inside `target` or <head>
after the last */\nexport const makeStyleTag = (target?: HTMLElement): HTMLStyleElement => {\n  const head =
((document.head: any): HTMLElement);\n  const parent = target || head;\n  const style =
document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling = prevStyle
!== undefined ? prevStyle.nextSibling : null;\n  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n  const nonce = getNonce();\n  if (nonce)
style.setAttribute('nonce', nonce);\n  parent.insertBefore(style,
  nextSibling);\n  return style;\n};\n\n/** Get the CSSStyleSheet instance for a given style element */\nexport const
getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return ((tag.sheet: any):
CSSStyleSheet);\n  }\n  // Avoid Firefox quirk where the style element might not have a sheet property\n  const {
styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n    const sheet = styleSheets[i];\n    if
(sheet.ownerNode === tag) {\n      return ((sheet: any): CSSStyleSheet);\n    }\n  }\n  throw StyledError(17);\n  return (undefined: any);\n};\n\n"/ @flow\n\n/** eslint-disable no-use-before-define */\nimport { makeStyleTag,
getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/** Create a CSSStyleSheet-like tag
depending on the environment */\nexport const makeTag = ({ isServer, useCSSOMInjection, target }:
SheetOptions): Tag => {\n  if (isServer) {\n    return new VirtualTag(target);\n  } else
if (useCSSOMInjection) {\n    return new CSSOMTag(target);\n  } else {\n    return new TextTag(target);\n  }\n};\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n  sheet:
CSSStyleSheet;\n  length: number;\n  constructor(target?: HTMLElement) {\n    const element = (this.element =
makeStyleTag(target));\n    // Avoid Edge bug where empty style elements don't create sheets\n    element.appendChild(document.createTextNode(""));
this.sheet = getSheet(element);\n    this.length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    try {\n      this.sheet.insertRule(rule, index);\n      this.length++;\n      return true;\n    } catch (_error) {\n      return false;\n    }\n  }\n  deleteRule(index: number):
void {\n    this.sheet.deleteRule(index);\n    this.length--;\n  }\n  getRule(index: number): string {\n    const rule =
this.sheet.cssRules[index];\n    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n    if (rule !== undefined && typeof rule.cssText === 'string') {\n      return rule.cssText;\n    } else {\n      return ";\n    }\n  }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes */\nexport class TextTag
implements Tag {\n  element: HTMLStyleElement;\n  nodes: NodeList<Node>;\n  length: number;\n  constructor(target?: HTMLElement) {\n    const element = (this.element = makeStyleTag(target));\n    this.nodes =
element.childNodes;\n    this.length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    if (index <=
this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode =
this.nodes[index];\n      this.element.insertBefore(node, refNode || null);\n      this.length++;\n      return true;\n    }
else {\n      return false;\n    }\n  }\n  deleteRule(index: number): void {\n    this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n  getRule(index: number): string {\n    if
(index
  < this.length) {\n      return this.nodes[index].textContent;\n    } else {\n      return ";\n    }\n  }\n}\n\n/** A
completely virtual (server-side) Tag that doesn't manipulate the DOM */\nexport class VirtualTag implements Tag {\n  rules: string[];\n  length: number;\n  constructor(_target?: HTMLElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length) {\n      this.rules.splice(index, 0, rule);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n  deleteRule(index: number): void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n  getRule(index: number):
string {\n    if (index < this.length) {\n      return this.rules[index];\n    } else {\n      return ";\n    }\n  }\n}\n\n"/ @flow\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport { EMPTY_OBJECT } from
'./utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport

```

```

    { getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet } from
'./Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from
'./types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\nntype SheetConstructorArgs = {\n  isServer?:
boolean,\n  useCSSOMInjection?: boolean,\n  target?: HTMLElement,\n};\n\nntype GlobalStylesAllocationMap = {
[key: string]: number };\n\nntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions:
SheetOptions = {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains
the main stylesheet logic for stringification and caching */\n\nexport default class StyleSheet implements Sheet {\n
  gs: GlobalStylesAllocationMap;\n\n  names: NamesAllocationMap;\n\n  options: SheetOptions;\n\n  server:
boolean;\n\n  tag: void | GroupedTag;\n\n  /** Register a group ID to give it an index */\n  static registerId(id:
string): number {\n    return getGroupForId(id);\n  }\n\n  constructor(\n    options: SheetConstructorArgs = EMPTY_OBJECT,\n    globalStyles?:
GlobalStylesAllocationMap = {},\n    names?: NamesAllocationMap\n  ) {\n    this.options = {\n
...defaultOptions,\n    ...options,\n  };\n\n    this.gs = globalStyles;\n    this.names = new Map(names);\n
this.server = !options.isServer;\n\n    // We rehydrate only once and use the sheet that is created first\n    if
(!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n      SHOULD_REHYDRATE = false;\n
rehydrateSheet(this);\n    }\n\n    reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =
true) {\n      return new StyleSheet(\n        { ...this.options, ...options },\n        this.gs,\n        (withNames && this.names) ||
undefined\n      );\n    }\n\n    allocateGSInstance(id: string) {\n      return (this.gs[id] = (this.gs[id] || 0) + 1);\n    }\n\n    /**
Lazily initialises a GroupedTag for when it's actually needed */\n    getTag(): GroupedTag {\n      return this.tag
|| (this.tag = makeGroupedTag(makeTag(this.options)));\n    }\n\n    /** Check whether a name is known for caching
*/\n    hasNameForId(id: string, name: string): boolean {\n      return this.names.has(id) && (this.names.get(id):
any).has(name);\n    }\n\n    /** Mark a group's name as known for caching */\n    registerName(id: string, name: string)
{\n      getGroupForId(id);\n\n      if (!this.names.has(id)) {\n        const groupNames = new Set();\n
groupNames.add(name);\n        this.names.set(id, groupNames);\n      } else {\n        (this.names.get(id):
any).add(name);\n      }\n    }\n\n    /** Insert new rules which also marks the name as known */\n    insertRules(id: string,
name: string, rules: string[]) {\n      this.registerName(id, name);\n      this.getTag().insertRules(getGroupForId(id),
rules);\n    }\n\n    /** Clears all cached names for a given group ID */\n    clearNames(id: string) {\n      if
(this.names.has(id)) {\n        (this.names.get(id): any).clear();\n      }\n    }\n\n    /** Clears all rules for a given
group ID */\n    clearRules(id: string) {\n      this.getTag().clearGroup(getGroupForId(id));\n      this.clearNames(id);\n
}\n\n    /** Clears the entire tag which deletes all rules but not its names */\n    clearTag() {\n      // NOTE: This does not
clear the names, since it's only used during SSR\n      // so that we can continuously output only new rules\n      this.tag
= undefined;\n    }\n\n    /** Outputs the current sheet as a CSS string with markers for SSR */\n    toString(): string {\n
return outputSheet(this);\n    }\n  }\n\n  /** MIT License\n  * Copyright (c) 2016 Sultan Tarimo\n  * \n  *
Permission is hereby granted, free of charge, to any person obtaining a copy of\n  * this software and associated
documentation files (the \"Software\"),\n  * to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n  * sell copies of the Software and to
permit persons to whom the Software is furnished to do so,\n  * subject to the following conditions:\n  * \n  * The above copyright notice and this permission notice shall be included
in all\n  * copies or substantial portions of the Software.\n  * \n  * THE SOFTWARE IS PROVIDED \"AS IS\",
WITHOUT WARRANTY OF ANY KIND, EXPRESS\n  * OR IMPLIED INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY,\n  * FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE\n  * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,\n  * WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR\n  * IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.\n  */\n\n  /** eslint-disable */\n\n  export default
function(insertRule) {\n    const delimiter = '*/';\n    const needle = `${delimiter}`;\n\n    function toSheet(block) {\n
if (block) {\n      try {\n        insertRule(`${block}`);\n      } catch (e) {\n      }\n    }\n\n    return function ruleSheet(\n
context,\n    content,\n    selectors,\n

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    parents,\n line,\n column,\n length,\n ns,\n depth,\n at\n ) {\n switch (context) {\n // property\n case 1:\n // @import\n if (depth === 0 && content.charCodeAt(0) === 64) return\n insertRule(`${content};`), "\n break;\n // selector\n case 2:\n if (ns === 0) return content +\n delimiter;\n break;\n // at-rule\n case 3:\n switch (ns) {\n // @font-face, @page\n case\n 102:\n case 112:\n return insertRule(selectors[0] + content), "\n default:\n return content +\n (at === 0 ? delimiter : ");\n }\n case -2:\n content.split(needle).forEach(toSheet);\n }\n};\n}\n", "import Stylish from '@emotion/stylish';\nimport { type Stringifier } from './types';\nimport {\nEMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwError from './error';\nimport { phash,\nSEED } from './hash';\nimport insertRulePlugin from\n './stylishPluginInsertRule';\n\nconst COMMENT_REGEX = /^\\s*\\/\\/.*$/gm;\nconst\nCOMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\nexport type StylishInstanceConstructorArgs = {\n options?:\nObject,\n plugins?: Array<Function>,\n};\n\nexport default function createStylishInstance({\n options =\nEMPTY_OBJECT,\n plugins = EMPTY_ARRAY,\n}: StylishInstanceConstructorArgs = EMPTY_OBJECT) {\n const stylish = new Stylish(options);\n // Wrap `insertRulePlugin` to build a list of rules,\n // and then make our own\n plugin to return the rules. This\n // makes it easier to hook into the existing SSR architecture\n\n let parsingRules =\n[];\n\n // eslint-disable-next-line consistent-return\n const returnRulesPlugin = context => {\n if (context === -2)\n {\n const parsedRules = parsingRules;\n parsingRules = [];\n return parsedRules;\n }\n};\n\n const\nparseRulesPlugin = insertRulePlugin(rule => {\n parsingRules.push(rule);\n});\n\n let _componentId: string;\n let\n_selector:\nstring;\n let _selectorRegex: RegExp;\n let _consecutiveSelfRefRegex: RegExp;\n\n const\nselfReferenceReplacer = (match, offset, string) => {\n if (\n // do not replace the first occurrence if it is\n complex (has a modifier)\n (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])\n === -1 : true) &&\n // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n !string.match(_consecutiveSelfRefRegex)\n ) {\n return `.${_componentId}`;\n }\n\n return match;\n};\n\n/**\n * When writing a style like\n * & + & {\n * color: red;\n * }\n * The second\n ampersand should be a reference to the static component class. stylish\n * has no knowledge of static class so we\n have to intelligently replace the base selector.\n *\n * https://github.com/thysultan/stylish.js/tree/v3.5.4#plugins <\n more info about the context phase values\n * \"2\" means this plugin is taking effect at the\n very end after all other processing is complete\n */\n const selfReferenceReplacementPlugin = (context, _,\n selectors) => {\n if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n //\n eslint-disable-next-line no-param-reassign\n selectors[0] = selectors[0].replace(_selectorRegex,\n selfReferenceReplacer);\n }\n};\n\n stylish.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin,\nreturnRulesPlugin]);\n\n function stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n const\nflatCSS = css.replace(COMMENT_REGEX, "");\n const cssStr = selector && prefix ? `${prefix} ${selector} {\n${flatCSS} }` : flatCSS;\n // stylish has no concept of state to be passed to plugins\n // but since JS is single-\n threaded, we can rely on that to ensure\n // these properties stay in sync with the current stylish run\n\n _componentId = componentId;\n _selector = selector;\n _selectorRegex = new RegExp(`\\\\\\\\${_selector}\\\\\\\\b`,\n 'g');\n _consecutiveSelfRefRegex = new RegExp(`\\\\\\\\${_selector}\\\\\\\\b}{2,}`);\n\n return stylish(prefix ||\n!selector ? " : selector, cssStr);\n }\n\n stringifyRules.hash = plugins.length\n ? plugins\n .reduce((acc,\n plugin) => {\n if (!plugin.name) {\n throwError(15);\n }\n\n return phash(acc,\n plugin.name);\n }, SEED)\n .toString()\n : "";\n\n return stringifyRules;\n }\n\n", " // @flow\nimport React, {\ntype Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\nimport shallowequal from\n 'shallowequal';\nimport StyleSheet from './sheet';\nimport type { Stringifier } from './types';\nimport\ncreateStylishInstance from './utils/stylish';\n\nexport type Props = {\n children?: Node,\n disableCSSOMInjection?:\nboolean,\n disableVendorPrefixes?: boolean,\n sheet?: StyleSheet,\n stylishPlugins?: Array<Function>,\n target?:\nHTMLDivElement;\n};\n\nexport const StyleSheetContext: Context<StyleSheet\n | void> = React.createContext();\nexport const StyleSheetConsumer = StyleSheetContext.Consumer;\nexport const\nStylishContext: Context<Stringifier | void> = React.createContext();\nexport const StylishConsumer =

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StylisContext.Consumer;\n\nexport const masterSheet: StyleSheet = new StyleSheet();\nexport const masterStylis:
Stringifier = createStylisInstance();\n\nexport function useStyleSheet(): StyleSheet {\n return
useContext(StyleSheetContext) || masterSheet;\n}\n\nexport function useStylis(): Stringifier {\n return
useContext(StylisContext) || masterStylis;\n}\n\nexport default function StyleSheetManager(props: Props) {\n const
[plugins, setPlugins] = useState(props.stylisPlugins);\n const contextStyleSheet = useStyleSheet();\n\n const
styleSheet = useMemo(() => {\n let sheet = contextStyleSheet;\n\n if (props.sheet) {\n // eslint-disable-next-
line prefer-destructuring\n sheet = props.sheet;\n } else if (props.target) {\n sheet =
sheet.reconstructWithOptions({
target: props.target }, false);\n })\n\n if (props.disableCSSOMInjection) {\n sheet =
sheet.reconstructWithOptions({ useCSSOMInjection: false });\n })\n\n return sheet;\n },
[props.disableCSSOMInjection, props.sheet, props.target]);\n\n const stylis = useMemo(\n () =>\n
createStylisInstance({\n options: { prefix: !props.disableVendorPrefixes },\n plugins,\n }),\n
[props.disableVendorPrefixes, plugins]);\n\n useEffect(() => {\n if (!shallowequal(plugins,
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n }, [props.stylisPlugins]);\n\n return (\n
<StyleSheetContext.Provider value={styleSheet}>\n <StylisContext.Provider value={stylis}>\n
{process.env.NODE_ENV !== 'production'\n ? React.Children.only(props.children)\n : props.children}\n
</StylisContext.Provider>\n </StyleSheetContext.Provider>\n );\n}\n", "/* @flow\nimport StyleSheet from
'../sheet';\nimport { type Stringifier
} from '../types';\nimport throwStyledError from '../utils/error';\nimport { masterStylis } from
'../StyleSheetManager';\n\nexport default class Keyframes {\n id: string;\n\n name: string;\n\n rules: string;\n\n
constructor(name: string, rules: string) {\n this.name = name;\n this.id = `sc-keyframes-${name}`;\n this.rules
= rules;\n }\n\n inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n const
resolvedName = this.name + stylisInstance.hash;\n\n if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n
styleSheet.insertRules(\n this.id,\n resolvedName,\n stylisInstance(this.rules, resolvedName,
'@keyframes')\n );\n }\n }\n\n toString = () => {\n return throwStyledError(12, String(this.name));\n
};\n\n getName(stylisInstance: Stringifier = masterStylis) {\n return this.name + stylisInstance.hash;\n
}\n}\n", "/*
@flow\n\n**\n * inlined version of\n *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n
*\n\nconst uppercaseCheck = /([A-Z])/;\nconst uppercasePattern = /([A-Z])/g;\nconst msPattern = /^ms-;/;\nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`;\n\n**\n * Hyphenates a camelcased
CSS property name, for example:\n * > hyphenateStyleName('backgroundColor')\n * < \"background-
color\"\n * > hyphenateStyleName('MozTransition')\n * < \"-moz-transition\"\n * >
hyphenateStyleName('msTransition')\n * < \"-ms-transition\"\n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix\n * is converted to `ms-`.\n * @param {string} string\n *
@return {string}\n *\n\nexport default function hyphenateStyleName(string: string): string {\n return
uppercaseCheck.test(string)\n ? string\n .replace(uppercasePattern, prefixAndLowerCase)\n .replace(msPattern,
'-ms-')\n : string;\n}\n", "/* @flow\nimport unitless from '@emotion/unitless';\n\n// Taken from
https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js\n\nexport
default function addUnitIfNeeded(name: string, value: any): any {\n // https://github.com/amilajack/eslint-plugin-
flowtype-errors/issues/133\n // $FlowFixMe\n if (value === null || typeof value === 'boolean' || value === '') {\n
return '';\n }\n\n if (typeof value === 'number' && value !== 0 && !(name in unitless) && !name.startsWith('--'))
{\n return `${value}px`;\n // Presumes implicit 'px' suffix for unitless numbers except for CSS variables\n }\n\n
return String(value).trim();\n}\n", "/* @flow\nimport { isElement } from 'react-is';\nimport getComponentName from
'./getComponentName';\nimport isFunction from './isFunction';\nimport isStatelessFunction from
'./isStatelessFunction';\nimport isPlainObject from './isPlainObject';\nimport isStyledComponent from
'./isStyledComponent';\nimport Keyframes from '../models/Keyframes';\nimport hyphenate from

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'/hyphenateStyleName';\nimport addUnitIfNeeded from './addUnitIfNeeded';\nimport { type Stringifier } from
'./types';\n\n/**\n * It's falsish not falsy because 0 is allowed.\n */\nconst isFalsish = chunk => chunk ===
undefined || chunk === null || chunk === false || chunk === "";\n\nexport const objToCssArray = (obj: Object,
prevKey?: string): Array<string | Function> => {\n  const rules = [];\n\n  for (const key in obj) {\n    if
(!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue;\n\n    if ((Array.isArray(obj[key]) && obj[key].isCss) ||
isFunction(obj[key])) {\n      rules.push(`${hyphenate(key)}:`, obj[key], `;`);\n    } else if (isPlainObject(obj[key]))
{\n      rules.push(...objToCssArray(obj[key], key));\n    } else {\n      rules.push(`${hyphenate(key)}:
${addUnitIfNeeded(key, obj[key]);}`);\n    }\n  }\n\n  return prevKey ? [`${prevKey} {`, ...rules, `}`]:
rules;\n};\n\nexport default function flatten(\n  chunk: any,\n  executionContext: ?Object,\n  styleSheet: ?Object,\n  stylisInstance: ?Stringifier\n): any {\n  if (Array.isArray(chunk)) {\n    const ruleSet = [];\n\n    for (let i = 0, len =
chunk.length, result; i < len; i += 1) {\n      result = flatten(chunk[i], executionContext, styleSheet,
stylisInstance);\n\n      if (result === "") continue;\n      else if (Array.isArray(result)) ruleSet.push(...result);\n      else
ruleSet.push(result);\n    }\n\n    return ruleSet;\n  }\n\n  if (isFalsish(chunk)) {\n    return "";\n  }\n\n  /* Handle other
components */\n  if (isStyledComponent(chunk)) {\n    return `.${chunk.styledComponentId}`;\n  }\n\n  /* Either
execute or defer the function */\n  if (isFunction(chunk)) {\n    if (isStatelessFunction(chunk) && executionContext)
{\n      const result = chunk(executionContext);\n\n      if (process.env.NODE_ENV !== 'production' &&
isElement(result)) {\n        // eslint-disable-next-line no-console\n        console.warn(\n
`${getComponentName(chunk)} is not a styled
component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components for more details.`\n      );\n    }\n  }\n\n  return
flatten(result, executionContext, styleSheet, stylisInstance);\n  } else return chunk;\n}\n\nif (chunk instanceof
Keyframes) {\n  if (styleSheet) {\n    chunk.inject(styleSheet, stylisInstance);\n    return
chunk.getName(stylisInstance);\n  } else return chunk;\n}\n\n/* Handle objects */\nreturn isPlainObject(chunk)
? objToCssArray(chunk) : chunk.toString();\n\n"}," @flow\n\nconst printed = {};\n\nexport default function
warnOnce(message) {\n  if (printed[message]) return;\n  printed[message] = true;\n\n  if (typeof console !==
'undefined' && console.warn) console.warn(message);\n}\n\n"}," @flow\n\nconst SINGLE_QUOTE =
'\''\n\nconst DOUBLE_QUOTE = '\"'\n\nconst BACKSLASH = '\\'\n\nconst SLASH = '/'\n\nconst NEWLINE =
'\n'\n\nconst SPACE = '\n'\n\nconst FEED = '\f'\n\nconst TAB =
'\t'\n\nconst CR = '\r'\n\nconst OPEN_SQUARE = '['\n\nconst CLOSE_SQUARE = ']'\n\nconst OPEN_PARENTHESES = '('\n\nconst
CLOSE_PARENTHESES = ')'\n\nconst OPEN_CURLY = '{'\n\nconst CLOSE_CURLY = '}'\n\nconst SEMICOLON = ';'\n\nconst ASTERISK =
'*'\n\nconst COLON = ':'\n\nconst AT = '@'\n\nconst RE_AT_END = /[\n\t\r\f\{\|\(\)\\"\\\|/g;\n\nconst RE_WORD_END = /[\n\t\r\f\(\)\{\|\}\|;\|@!\\"\\\|/g;\n\nconst
RE_BAD_BRACKET = /.[\|\(\)\(\)\n];\n\nexport default function tokenize(input, options = {}) {\n  const tokens
= [];\n  const css = input.css.valueOf();\n  const ignore = options.ignoreErrors;\n\n  let code,\n  next,\n  quote,\n  lines,\n  last,\n  content,\n  escape,\n  nextLine,\n  nextOffset,\n  escaped,\n  escapePos,\n  prev,\n  n;\n\n  const length = css.length;\n  let offset = -1;\n  let line
= 1;\n  let pos = 0;\n\n  function unclosed(what) {\n    throw input.error(`Unclosed ${what}`, line, pos - offset);\n  }\n\n  while (pos < length) {\n    code = css.charCodeAt(pos);\n\n    if (code === NEWLINE || code === FEED ||
(code === CR && css.charCodeAt(pos + 1) !== NEWLINE)) {\n      offset = pos;\n      line += 1;\n    }\n\n    switch
(code) {\n      case NEWLINE:\n      case SPACE:\n      case TAB:\n      case CR:\n      case FEED:\n      next =
pos;\n      do {\n        next += 1;\n        code = css.charCodeAt(next);\n        if (code === NEWLINE) {\n
offset = next;\n        line += 1;\n        }\n      } while (\n        code === SPACE ||\n        code === NEWLINE
||\n        code === TAB ||\n        code === CR ||\n        code === FEED\n      );\n      tokens.push(['space',
css.slice(pos, next)]);\n

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    pos = next - 1;\n    break;\n\n    case OPEN_SQUARE:\n        tokens.push(['[', '[', line, pos - offset]);\n        break;\n\n    case CLOSE_SQUARE:\n        tokens.push([']', ']', line, pos - offset]);\n        break;\n\n    case OPEN_CURLY:\n        tokens.push(['{', '{', line, pos - offset]);\n        break;\n\n    case CLOSE_CURLY:\n        tokens.push(['}', '}', line, pos - offset]);\n        break;\n\n    case COLON:\n        tokens.push([':', ':', line, pos - offset]);\n        break;\n\n    case SEMICOLON:\n        tokens.push([';', ';', line, pos - offset]);\n        break;\n\n    case OPEN_PARENTHESES:\n        prev = tokens.length ? tokens[tokens.length - 1][1] : '';\n        n =\n        css.charCodeAt(pos + 1);\n        if (\n            prev === 'url' &&\n            n !== SINGLE_QUOTE &&\n            n !== DOUBLE_QUOTE &&\n            n !== SPACE &&\n            n !== NEWLINE &&\n            n !== TAB &&\n            n !== FEED &&\n            n !== CR\n        )\n        {\n            next = pos;\n            do {\n                escaped = false;\n                next = css.indexOf(')', next + 1);\n                if\n                (next === -1) {\n                    if (ignore) {\n                        next = pos;\n                        break;\n                    } else {\n                        unclosed('bracket');\n                    }\n                    escapePos = next;\n                    while (css.charCodeAt(escapePos - 1)\n                        === BACKSLASH) {\n                        escapePos -= 1;\n                        escaped = !escaped;\n                    }\n                    while\n                    (escaped);\n                    tokens.push([\n                        'brackets',\n                        css.slice(pos, next + 1),\n                        line,\n                        pos -\n                        offset,\n                        line,\n                        next - offset,\n                        ]);\n                    pos = next;\n                } else {\n                    next = css.indexOf(')',\n                        pos + 1);\n                    content = css.slice(pos, next + 1);\n                    if (next === -1 || RE_BAD_BRACKET.test(content))\n                    {\n                        tokens.push(['(', '(', line, pos - offset]);\n                    }\n                    } else {\n                        tokens.push(['brackets', content, line, pos - offset, line, next - offset]);\n                    }\n                }\n            }\n            break;\n\n        case CLOSE_PARENTHESES:\n            tokens.push([')', ')', line, pos - offset]);\n            break;\n\n        case SINGLE_QUOTE:\n        case DOUBLE_QUOTE:\n            quote = code === SINGLE_QUOTE ?\n            '\"' : '\'';\n            next = pos;\n            do {\n                escaped = false;\n                next = css.indexOf(quote, next + 1);\n                if\n                (next === -1) {\n                    if (ignore) {\n                        next = pos + 1;\n                        break;\n                    } else {\n                        unclosed('quote');\n                    }\n                    }\n                }\n                escapePos = next;\n                while (css.charCodeAt(escapePos - 1) ===\n                    BACKSLASH) {\n                    escapePos -= 1;\n                    escaped = !escaped;\n                }\n                while (escaped);\n                content = css.slice(pos, next + 1);\n                lines = content.split('\\n');\n                last = lines.length - 1;\n\n                if (last > 0) {\n                    nextLine = line + last;\n                    nextOffset = next - lines[last].length;\n                } else {\n                    nextLine = line;\n                    nextOffset = offset;\n                }\n                tokens.push([\n                    'string',\n                    css.slice(pos, next\n                    + 1),\n                    line,\n                    pos - offset,\n                    nextLine,\n                    next - nextOffset,\n                    ]);\n                offset =\n                nextOffset;\n                line = nextLine;\n                pos = next;\n                break;\n\n            case AT:\n                RE_AT_END.lastIndex =\n                pos + 1;\n                RE_AT_END.test(css);\n                if (RE_AT_END.lastIndex === 0) {\n                    next = css.length - 1;\n                } else {\n                    next = RE_AT_END.lastIndex - 2;\n                }\n                tokens.push(['at-word', css.slice(pos, next + 1),\n                    line, pos - offset, line, next - offset]);\n                pos = next;\n                break;\n\n            case BACKSLASH:\n                next = pos;\n                escape = true;\n                while (css.charCodeAt(next + 1) === BACKSLASH) {\n                    next += 1;\n                    escape = !escape;\n                }\n                code = css.charCodeAt(next + 1);\n                if (\n                    escape\n                    &&\n                    (code !== SLASH &&\n                    code !== SPACE &&\n                    code !== NEWLINE &&\n                    code\n                    !== TAB &&\n                    code !== CR &&\n                    code !== FEED)\n                ) {\n                    next += 1;\n                }\n                tokens.push(['word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n                pos = next;\n                break;\n\n            default:\n                if (code === SLASH && css.charCodeAt(pos + 1) === ASTERISK) {\n                    next =\n                    css.indexOf('*', pos + 2) + 1;\n                    if (next === 0) {\n                        if (ignore) {\n                            next = css.length;\n                        }\n                    } else {\n                        unclosed('comment');\n                    }\n                }\n                content = css.slice(pos, next + 1);\n                lines =\n                content.split('\\n');\n                last = lines.length - 1;\n                if (last > 0) {\n                    nextLine = line + last;\n                    nextOffset = next - lines[last].length;\n                } else {\n                    nextLine = line;\n                    nextOffset = offset;\n                }\n                tokens.push(['comment', content, line, pos - offset, nextLine, next - nextOffset]);\n                offset =\n                nextOffset;\n                line = nextLine;\n                pos = next;\n                } else {\n                    RE_WORD_END.lastIndex = pos +\n                    1;\n                    RE_WORD_END.test(css);\n                    if (RE_WORD_END.lastIndex === 0) {\n                        next = css.length -\n                        1;\n                    } else {\n                        next = RE_WORD_END.lastIndex - 2;\n                    }\n                }\n                tokens.push(['word',\n                    css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n                pos = next;\n                }\n            }\n            break;\n        }\n        pos++;\n    }\n    return tokens;\n}\n\n", "/* @flow\nimport tokenize from './tokenize';\nimport Input from

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'/input';\n\nconst HIGHLIGHT_THEME = {\n  brackets: [36, 39], // cyan\n  string: [31, 39], // red\n  'at-word': [31, 39], // red\n  comment: [90, 39], // gray\n  '{': [32, 39], // green\n  '}': [32, 39], // green\n  ':': [1, 22], // bold\n  ';': [1, 22], // bold\n  '(': [1, 22], // bold\n  ')': [1, 22], // bold\n};\n\nfunction code(color) {\n  return `\\u001b[${color}m`;\n}\n\nfunction terminalHighlight(css) {\n  const tokens = tokenize(new Input(css), { ignoreErrors: true });\n  const result = [];\n  tokens.forEach(token => {\n    const color = HIGHLIGHT_THEME[token[0]];\n    if (color) {\n      result.push(\n        token[1]\n        .split(/\\r?\\n/)\n        .map(i => code(color[0]) + i + code(color[1]))\n        .join("\\n")\n      );\n    } else {\n      result.push(token[1]);\n    }\n  });\n  return result.join("");\n}\n\nexport default terminalHighlight;\n", "//\n@flow\nimport supportsColor from 'supports-color';\nimport terminalHighlight from './terminal-highlight';\nimport warnOnce from './warn-once';\n\n/**\n * The CSS parser throws this error for broken CSS.\n *\n * Custom parsers can throw this error for broken custom syntax using\n * the {@link Node#error} method.\n *\n * PostCSS will use the input source map to detect the original error location.\n * If you wrote a Sass file, compiled it to CSS and then parsed it with PostCSS,\n * PostCSS will show the original position in the Sass file.\n *\n * If you need the position in the PostCSS input\n * (e.g., to debug the previous compiler), use `error.input.file`.\n *\n * @example\n * // Catching and checking syntax error\n * try {\n *   postcss.parse('a{')\n * } catch (error) {\n *   if (error.name === 'CssSyntaxError') {\n *     error // => CssSyntaxError\n *   }\n * }\n *\n * @example\n * // Raising error from plugin\n * throw node.error('Unknown variable', { plugin: 'postcss-vars' });\n *\n * @class CssSyntaxError\n * {\n *   /**\n *    * @param {string} message - error message\n *    * @param {number} [line] - source line of the error\n *    * @param {number} [column] - source column of the error\n *    * @param {string} [source] - source code of the broken file\n *    * @param {string} [file] - absolute path to the broken file\n *    * @param {string} [plugin] - PostCSS plugin name, if error came from plugin\n *    * ^\n *    * constructor(message, line, column, source, file, plugin) {\n *    *   /**\n *    *    * @member {string} - Always equal to `CssSyntaxError`. You should\n *    *      always check error type\n *    *    * by `error.name === 'CssSyntaxError'` instead of\n *    *      `error instanceof CssSyntaxError`, because\n *    *      npm could have several PostCSS versions.\n *    *    * @example\n *    *    * if (error.name === 'CssSyntaxError') {\n *    *      error // => CssSyntaxError\n *    *    * ^\n *    *    * this.name = 'CssSyntaxError';\n *    *    * ^\n *    *    * @member {string} - Error message.\n *    *    * @example\n *    *    * error.message // => 'Unclosed block'\n *    *    * ^\n *    *    * this.reason = message;\n *    *    * if (file) {\n *    *      /**\n *    *    *    * @member {string} - Absolute path to the broken file.\n *    *    *    * @example\n *    *    *    * error.file // => 'a.sass'\n *    *    *    * error.input.file // => 'a.css'\n *    *    *    * ^\n *    *    *    * this.file = file;\n *    *    *    * }\n *    *    * if (source) {\n *    *      /**\n *    *    *    * @member {string} - Source code of the broken file.\n *    *    *    * @example\n *    *    *    * error.source // => 'a { b { } }\n *    *    *    * error.input.column // => 'a b { }'\n *    *    *    * ^\n *    *    *    * this.source = source;\n *    *    *    * }\n *    *    * if (plugin) {\n *    *      /**\n *    *    *    * @member {string} - Plugin name, if error came from plugin.\n *    *    *    * @example\n *    *    *    * error.plugin // => 'postcss-vars'\n *    *    *    * ^\n *    *    *    * this.plugin = plugin;\n *    *    *    * }\n *    *    * if (typeof line !== 'undefined' && typeof column !== 'undefined') {\n *    *      /**\n *    *    *    * @member {number} - Source line of the error.\n *    *    *    * @example\n *    *    *    * error.line // => 2\n *    *    *    * error.input.line // => 4\n *    *    *    * ^\n *    *    *    * this.line = line;\n *    *    *    * }\n *    *    * /**\n *    *    *    * @member {number} - Source column of the error.\n *    *    *    * @example\n *    *    *    * error.column // => 1\n *    *    *    * error.input.column // => 4\n *    *    *    * ^\n *    *    *    * this.column = column;\n *    *    *    * }\n *    *    * this.setMessage();\n *    *    * }\n *    *    * if (Error.captureStackTrace) {\n *    *      Error.captureStackTrace(this, CssSyntaxError);\n *    *    * }\n *    *    * }\n *    *    * }\n *    *    * setMessage()\n *    *    * ^\n *    *    * @member {string} - Full error text in the GNU error format\n *    *    * with plugin, file, line and column.\n *    *    * @example\n *    *    * error.message // => 'a.css:1:1: Unclosed block'\n *    *    * ^\n *    *    * this.message = this.plugin ? `${this.plugin}: ` : ` `;\n *    *    * this.message += this.file ? this.file : '<css input>';\n *    *    * if (typeof this.line !== 'undefined') {\n *    *      this.message += `:${this.line}:${this.column}`;\n *    *    * }\n *    *    * this.message += `:${this.reason}`;\n *    *    * }\n *    *    * }\n *    *    * Returns a few lines of CSS source that caused the error.\n *    *    * If the CSS has an input source map without `sourceContent`,\n *    *    * this method will return an empty string.\n *    *    * @param {boolean} [color] whether arrow will be colored red by terminal\n *    *    * color codes. By default, PostCSS will detect\n *    *    * color support by `process.stdout.isTTY`\n *    *    * and `process.env.NODE_DISABLE_COLORS`\n *

```



```

*\n * @example\n * error.showSourceCode() //=> \" 4 | }\n * // 5 | a {\n * // 6 | bad\n * // | ^\n * // 7 | }\n * // 8 | b {\n * // \"\n *
@return {string} few lines of CSS source that caused the error\n * ^\n showSourceCode(color) {\n if
(!this.source) return \";\n\n let css = this.source;\n if (typeof color === 'undefined') color = supportsColor;\n if
(color) css = terminalHighlight(css);\n\n const lines = css.split(/\\r?\\n/);\n const start = Math.max(this.line - 3,
0);\n const end = Math.min(this.line + 2, lines.length);\n\n const maxWidth = String(end).length;\n\n
return lines\n .slice(start, end)\n .map((line, index) => {\n const number = start + 1 + index;\n const
padded = ` ${number}`.slice(-maxWidth);\n const gutter = ` ${padded} | `;\n if (number === this.line) {\n
const spacing =\n gutter.replace(/\\d/g, ' ') + line.slice(0, this.column - 1).replace(/[^\\t]/g, ');\n
return `>${gutter}${line}\\n ${spacing}^`;\n } else {\n return `>${gutter}${line}`;\n } }\n })\n
.join(\"\\n\");\n }\n\n /**\n * Returns error position, message and source code of the broken part.\n *
@example\n * error.toString() //=> \"CssSyntaxError: app.css:1:1: Unclosed block\n * // > 1 | a {\n
* // | ^\n * @return {string} error position, message and source code\n * ^\n toString() {\n
let code = this.showSourceCode();\n if (code) {\n code = `\\n\\n${code}\\n`;\n }\n return
`${this.name}: ${this.message}${code}`;\n }\n\n get generated() {\n warnOnce('CssSyntaxError#generated is
deprecated. Use input instead.);\n return this.input;\n }\n\n /**\n * @memberof CssSyntaxError#\n *
@member {Input} input - Input object with PostCSS internal information\n * about input file. If
input has source map\n * from previous tool, PostCSS will use origin\n * (for
example, Sass) source. You can use this\n * object to get PostCSS input source.\n *
@example\n * error.input.file //=> 'a.css'\n * error.file //=> 'a.sass'\n * ^\n\n\nexport default
CssSyntaxError;\n\", \"// @flow\n/* eslint-disable valid-jsdoc *\n\nconst defaultRaw = {\n colon: ':',\n indent: '
',\n beforeDecl: '\\n',\n beforeRule: '\\n',\n beforeOpen: ' ',\n beforeClose: '\\n',\n beforeComment: '\\n',\n after:
 '\\n',\n emptyBody: '\n',\n commentLeft: ' ',\n commentRight:
 ' ',\n};\n\nfunction capitalize(str) {\n return str[0].toUpperCase() + str.slice(1);\n}\n\nclass Stringifier {\n
constructor(builder) {\n this.builder = builder;\n }\n\n stringify(node, semicolon) {\n this[node.type](node,
semicolon);\n }\n\n root(node) {\n this.body(node);\n if (node.raws.after) this.builder(node.raws.after);\n }\n\n
comment(node) {\n const left = this.raw(node, 'left', 'commentLeft');\n const right = this.raw(node, 'right',
'commentRight');\n this.builder(`/${left}${node.text}${right}*/`, node);\n }\n\n decl(node, semicolon) {\n
const between = this.raw(node, 'between', 'colon');\n let string = node.prop + between + this.rawValue(node,
'value');\n\n if (node.important) {\n string += node.raws.important || ' !important';\n }\n\n if (semicolon)
string += ';\n this.builder(string, node);\n }\n\n rule(node) {\n this.block(node, this.rawValue(node,
'selector'));\n }\n\n atrule(node, semicolon) {\n
let name = `@${node.name}`;\n const params = node.params ? this.rawValue(node, 'params') : \";\n\n if (typeof
node.raws.afterName !== 'undefined') {\n name += node.raws.afterName;\n } else if (params) {\n name += '
';\n }\n\n if (node.nodes) {\n this.block(node, name + params);\n } else {\n const end =
(node.raws.between || \"\") + (semicolon ? ';' : \");\n this.builder(name + params + end, node);\n }\n }\n\n
body(node) {\n let last = node.nodes.length - 1;\n while (last > 0) {\n if (node.nodes[last].type !== 'comment')
break;\n last -= 1;\n }\n\n const semicolon = this.raw(node, 'semicolon');\n for (let i = 0; i <
node.nodes.length; i++) {\n const child = node.nodes[i];\n const before = this.raw(child, 'before');\n if
(before) this.builder(before);\n this.stringify(child, last !== i || semicolon);\n }\n }\n\n block(node, start) {\n
const between = this.raw(node, 'between', 'beforeOpen');\n
this.builder(`${start + between}` , node, 'start');\n\n let after;\n if (node.nodes && node.nodes.length) {\n
this.body(node);\n after = this.raw(node, 'after');\n } else {\n after = this.raw(node, 'after', 'emptyBody');\n
}\n\n if (after) this.builder(after);\n this.builder('}', node, 'end');\n }\n\n raw(node, own, detect) {\n let value;\n
if (!detect) detect = own;\n\n // Already had\n if (own) {\n value = node.raws[own];\n if (typeof value
!== 'undefined') return value;\n }\n\n const parent = node.parent;\n\n // Hack for first rule in CSS\n if (detect
=== 'before') {\n if (!parent || (parent.type === 'root' && parent.first === node)) {\n return \";\n }\n }\n\n
// Floating child without parent\n if (!parent) return defaultRaw[detect];\n\n // Detect style by other nodes\n

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const root = node.root();\n  if (!root.rawCache) root.rawCache = {};\n  if (typeof root.rawCache[detect]
  !== 'undefined') {\n    return root.rawCache[detect];\n  }\n  if (detect === 'before' || detect === 'after') {\n
return this.beforeAfter(node, detect);\n  } else {\n    const method = `raw${capitalize(detect)}`;\n    if
(this[method]) {\n      value = this[method](root, node);\n    } else {\n      root.walk(i => {\n        value =
i.rows[own];\n        if (typeof value !== 'undefined') return false;\n      });\n    }\n    if (typeof value ===
'undefined') value = defaultRaw[detect];\n    root.rawCache[detect] = value;\n    return value;\n  }\n}\n\n
rawSemicolon(root) {\n  let value;\n  root.walk(i => {\n    if (i.nodes && i.nodes.length && i.last.type ===
'decl') {\n      value = i.rows.semicolon;\n      if (typeof value !== 'undefined') return false;\n    }\n  });\n  return
value;\n}\n\nrawEmptyBody(root) {\n  let value;\n  root.walk(i => {\n    if (i.nodes && i.nodes.length === 0)
{\n      value = i.rows.after;\n      if (typeof value !== 'undefined') return false;\n    }\n  });\n  return value;\n}\n\n
rawIndent(root) {\n  if
(root.rows.indent) return root.rows.indent;\n  let value;\n  root.walk(i => {\n    const p = i.parent;\n    if (p && p
!=== root && p.parent && p.parent === root) {\n      if (typeof i.rows.before !== 'undefined') {\n        const parts =
i.rows.before.split("\\n");\n        value = parts[parts.length - 1];\n        value = value.replace(/^[\\s]/g, "");\n
return false;\n      }\n    }\n  });\n  return value;\n}\n\nrawBeforeComment(root, node) {\n  let value;\n
root.walkComments(i => {\n    if (typeof i.rows.before !== 'undefined') {\n      value = i.rows.before;\n      if
(value.indexOf("\\n") !== -1) {\n        value = value.replace(/^[\\n]+$/, "");\n      }\n      return false;\n    }\n
});\n  if (typeof value === 'undefined') {\n    value = this.raw(node, null, 'beforeDecl');\n  }\n  return
value;\n}\n\nrawBeforeDecl(root, node) {\n  let value;\n  root.walkDecls(i => {\n    if (typeof i.rows.before
!== 'undefined') {\n      value = i.rows.before;\n      if (value.indexOf("\\n") !== -1) {\n        value =
value.replace(/^[\\n]+$/, "");\n      }\n      return false;\n    }\n  });\n  if (typeof value === 'undefined') {\n
value = this.raw(node, null, 'beforeRule');\n  }\n  return value;\n}\n\nrawBeforeRule(root) {\n  let value;\n
root.walk(i => {\n    if (i.nodes && (i.parent !== root || root.first !== i)) {\n      if (typeof i.rows.before !==
'undefined') {\n        value = i.rows.before;\n        if (value.indexOf("\\n") !== -1) {\n          value =
value.replace(/^[\\n]+$/, "");\n        }\n        return false;\n      }\n    }\n  });\n  return value;\n}\n\n
rawBeforeClose(root) {\n  let value;\n  root.walk(i => {\n    if (i.nodes && i.nodes.length > 0) {\n      if (typeof
i.rows.after !== 'undefined') {\n        value = i.rows.after;\n        if (value.indexOf("\\n") !== -1) {\n          value =
value.replace(/^[\\n]+$/,
");\n      }\n      return false;\n    }\n  });\n  return value;\n}\n\nrawBeforeOpen(root) {\n  let
value;\n  root.walk(i => {\n    if (i.type !== 'decl') {\n      value = i.rows.between;\n      if (typeof value !==
'undefined') return false;\n    }\n  });\n  return value;\n}\n\nrawColon(root) {\n  let value;\n
root.walkDecls(i => {\n    if (typeof i.rows.between !== 'undefined') {\n      value =
i.rows.between.replace(/^[\\s:]/g, "");\n      return false;\n    }\n  });\n  return value;\n}\n\nbeforeAfter(node,
detect) {\n  let value;\n  if (node.type === 'decl') {\n    value = this.raw(node, null, 'beforeDecl');\n  } else if
(node.type === 'comment') {\n    value = this.raw(node, null, 'beforeComment');\n  } else if (detect === 'before')
{\n    value = this.raw(node, null,
'beforeRule');\n  } else {\n    value = this.raw(node, null, 'beforeClose');\n  }\n  let buf = node.parent;\n  let
depth = 0;\n  while (buf && buf.type !== 'root') {\n    depth += 1;\n    buf = buf.parent;\n  }\n  if
(value.indexOf("\\n") !== -1) {\n    const indent = this.raw(node, null, 'indent');\n    if (indent.length) {\n      for
(let step = 0; step < depth; step++) value += indent;\n    }\n  }\n  return value;\n}\n\nrawValue(node, prop)
{\n  const value = node[prop];\n  const raw = node.rows[prop];\n  if (raw && raw.value === value) {\n    return
raw.raw;\n  } else {\n    return value;\n  }\n}\n\n\nexport default Stringifier;\n\n"/ @flow\nimport Stringifier
from './stringifier';\n\nexport default function stringify(node, builder) {\n  const str = new Stringifier(builder);\n
str.stringify(node);\n}\n\n"/ @flow\nimport CssSyntaxError from './css-syntax-error';\nimport Stringifier from
'./stringifier';\nimport stringify
from './stringify';\nimport warnOnce from './warn-once';\n\n/**\n * @typedef {object} position\n * @property
{number} line - source line in file\n * @property {number} column - source column in file\n * \\n\n/**\n *
@typedef {object} source\n * @property {Input} input - {@link Input} with input file\n * @property {position}

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start - The starting position of the node's source\n * @property {position} end - The ending position of the node's
source\n */\n\nconst cloneNode = function(obj, parent) {\n  const cloned = new obj.constructor();\n  for (const i in obj) {\n    if (!obj.hasOwnProperty(i)) continue;\n    let value = obj[i];\n    const type = typeof value;\n    if (i ===\n    'parent' && type === 'object') {\n      if (parent) cloned[i] = parent;\n    } else if (i === 'source') {\n      cloned[i] =\n      value;\n    } else if (value instanceof Array) {\n      cloned[i] = value.map(j => cloneNode(j, cloned));\n    } else if (i\n    !== 'before' && i !== 'after' && i !== 'between' && i !==\n    'semicolon') {\n      if (type === 'object' && value !== null) value = cloneNode(value);\n      cloned[i] = value;\n    }\n  }\n  return cloned;\n};\n\n/**\n * All node classes inherit the following common methods.\n */\n\n@abstract\n\n@class Node {\n  /**\n   * @param {object} [defaults] - value for node properties\n   */\n  constructor(defaults =\n  {}) {\n    this.raws = {};\n    for (const name in defaults) {\n      this[name] = defaults[name];\n    }\n  }\n\n  /**\n   * Returns a CssSyntaxError instance containing the original position\n   * of the node in the source, showing line and\n   * column numbers and also\n   * a small excerpt to facilitate debugging.\n   *\n   * If present, an input source map will\n   * be used to get the original position\n   * of the source, even from a previous compilation step\n   * (e.g., from Sass\n   * compilation).\n   *\n   * This method produces very useful error messages.\n   *\n   * @param {string} message -\n   * error description\n   * @param {object} [opts]\n   * - options\n   * @param {string} opts.plugin - plugin name that created this error.\n   *\n   * PostCSS will set it automatically.\n   * @param {string} opts.word - a word inside a node's string that should\n   * be highlighted as the source of the error\n   * @param {number} opts.index - an index inside a\n   * node's string that should\n   * be highlighted as the source of the error\n   *\n   * @return\n   * {CssSyntaxError} error object to throw it\n   *\n   * @example\n   * if (!variables[name]) {\n   *   throw\n   *   decl.error('Unknown variable ' + name, { word: name });\n   *   // CssSyntaxError: postcss-vars:a.sass:4:3: Unknown\n   *   variable $black\n   *   // color: $black\n   *   // a\n   *   // ^\n   *   // background: white\n   * }\n   *\n   * error(message, opts = {}) {\n   *   if (this.source) {\n   *     const pos = this.positionBy(opts);\n   *     return\n   *     this.source.input.error(message, pos.line, pos.column,\n   *     opts);\n   *   } else {\n   *     return new CssSyntaxError(message);\n   *   }\n   * }\n\n  /**\n   * This method is provided as a\n   * convenience wrapper for {@link Result#warn}.\n   *\n   * @param {Result} result - the {@link Result}\n   * instance\n   * that will receive the warning\n   * @param {string} text - warning message\n   * @param {object} [opts] - options\n   * @param {string} opts.plugin - plugin name that created this warning.\n   *\n   * PostCSS will set it automatically.\n   * @param {string} opts.word - a word inside a node's\n   * string that should\n   * be highlighted as the source of the warning\n   * @param {number}\n   * opts.index - an index inside a node's string that should\n   * be highlighted as the source of the\n   * warning\n   *\n   * @return {Warning} created warning object\n   *\n   * @example\n   * const plugin =\n   * postcss.plugin('postcss-deprecated',\n   * () => {\n   *   return (root, result) => {\n   *     root.walkDecls('bad', decl => {\n   *       decl.warn(result, 'Deprecated\n   *       property bad');\n   *     });\n   *   }\n   * }\n   *\n   * warn(result, text, opts) {\n   *   const data = { node: this };\n   *   for\n   *   (const i in opts) data[i] = opts[i];\n   *   return result.warn(text, data);\n   * }\n\n  /**\n   * Removes the node from its\n   * parent and cleans the parent properties\n   * from the node and its children.\n   *\n   * @example\n   * if (\n   * decl.prop.match(/^webkit-/)) {\n   *   decl.remove();\n   * }\n\n   * @return {Node} node to make calls chain\n   *\n   * remove() {\n   *   if (this.parent) {\n   *     this.parent.removeChild(this);\n   *   }\n   *   this.parent = undefined;\n   *   return\n   *   this;\n   * }\n\n  /**\n   * Returns a CSS string representing the node.\n   *\n   * @param {stringifier|syntax}\n   * [stringifier] - a syntax to use\n   * in string generation\n   *\n   * @return {string} CSS\n   * string of this\n   * node\n   *\n   * @example\n   * postcss.rule({ selector: 'a' }).toString() // => 'a {\n   * }\n\n   * toString(stringifier =\n   * stringify) {\n   *   if (stringifier.stringify) stringifier = stringifier.stringify;\n   *   let result = '';\n   *   stringifier(this, i => {\n   *     result += i;\n   *   });\n   *   return result;\n   * }\n\n  /**\n   * Returns a clone of the node.\n   *\n   * The resulting cloned\n   * node and its (cloned) children will have\n   * a clean parent and code style properties.\n   *\n   * @param {object}\n   * [overrides] - new properties to override in the clone.\n   *\n   * @example\n   * const cloned = decl.clone({ prop: '-\n   * moz-' + decl.prop });\n   * cloned.raws.before // => undefined\n   * cloned.parent // => undefined\n   *

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cloned.toString() //=> -moz-transform: scale(0)\n *\n * @return {Node} clone of the node\n *\n
clone(overrides = {}) {\n  const cloned = cloneNode(this);\n  for (const name in overrides) {\n    cloned[name] =
overrides[name];\n  }\n  return cloned;\n
}\n\n /**\n * Shortcut to clone the node and insert the resulting cloned node\n * before the current node.\n *\n * @param {object} [overrides] - new properties to override in the clone.\n *\n * @example\n *
decl.cloneBefore({ prop: '-moz-' + decl.prop });\n *\n * @return {Node} - new node\n *\n
cloneBefore(overrides = {}) {\n  const cloned = this.clone(overrides);\n  this.parent.insertBefore(this, cloned);\n  return cloned;\n }\n\n /**\n * Shortcut to clone the node and insert the resulting cloned node\n * after the current
node.\n *\n * @param {object} [overrides] - new properties to override in the clone.\n *\n * @return {Node} -
new node\n *\n
cloneAfter(overrides = {}) {\n  const cloned = this.clone(overrides);\n  this.parent.insertAfter(this, cloned);\n  return cloned;\n }\n\n /**\n * Inserts node(s) before the current node and
removes the current node.\n *\n * @param {...Node} nodes - node(s) to replace current one\n
*\n * @example\n * if ( atrule.name === 'mixin' ) {\n *   atrule.replaceWith(mixinRules[atrule.params]);\n *
}\n *\n * @return {Node} current node to methods chain\n *\n
replaceWith(...nodes) {\n  if (this.parent) {\n    nodes.forEach(node => {\n      this.parent.insertBefore(this, node);\n    });\n    this.remove();\n  }\n  return
this;\n }\n\n /**\n * Removes the node from its current parent and inserts it\n * at the end of `newParent`.\n *\n * This will clean the `before` and `after` code { @link Node#raws } data\n * from the node and replace them with
the indentation style of `newParent`.\n * It will also clean the `between` property\n * if `newParent` is in another
{ @link Root}.\n *\n * @param {Container} newParent - container node where the current node\n *
will be moved\n *\n * @example\n * atrule.moveTo(atrule.root());\n *\n * @return {Node} current node
to methods chain\n *\n
moveTo(newParent) {\n  this.cleanRaws(this.root() === newParent.root());\n  this.remove();\n  newParent.append(this);\n  return this;\n }\n\n /**\n * Removes the node from its current parent and inserts it
into\n * a new parent before `otherNode`.\n *\n * This will also clean the node's code style properties just as it
would\n * in { @link Node#moveTo}.\n *\n * @param {Node} otherNode - node that will be before current
node\n *\n * @return {Node} current node to methods chain\n *\n
moveBefore(otherNode) {\n  this.cleanRaws(this.root() === otherNode.root());\n  this.remove();\n  otherNode.parent.insertBefore(otherNode,
this);\n  return this;\n }\n\n /**\n * Removes the node from its current parent and inserts it into\n * a new parent
after `otherNode`.\n *\n * This will also clean the node's code style properties just as it would\n * in { @link
Node#moveTo}.\n *\n * @param {Node} otherNode - node that will be after current node\n *\n
*\n * @return {Node} current node to methods chain\n *\n
moveAfter(otherNode) {\n  this.cleanRaws(this.root()
=== otherNode.root());\n  this.remove();\n  otherNode.parent.insertAfter(otherNode, this);\n  return this;\n }\n\n
/**\n * Returns the next child of the node's parent.\n * Returns `undefined` if the current node is the last child.\n
*\n * @return {Node|undefined} next node\n *\n * @example\n * if ( comment.text === 'delete next' ) {\n *
const next = comment.next();\n * if ( next ) {\n *   next.remove();\n * }\n * }\n *\n
next() {\n  const
index = this.parent.index(this);\n  return this.parent.nodes[index + 1];\n }\n\n /**\n * Returns the previous child
of the node's parent.\n * Returns `undefined` if the current node is the first child.\n *\n * @return
{Node|undefined} previous node\n *\n * @example\n * const annotation = decl.prev();\n * if ( annotation.type
=== 'comment' ) {\n *   readAnnotation(annotation.text);\n
*\n * }\n *\n
prev() {\n  const index = this.parent.index(this);\n  return this.parent.nodes[index - 1];\n }\n\n
toJSON() {\n  const fixed = {};\n  for (const name in this) {\n    if (!this.hasOwnProperty(name)) continue;\n    if (name === 'parent') continue;\n    const value = this[name];\n    if (value instanceof Array) {\n
fixed[name] = value.map(i => {\n      if (typeof i === 'object' && i.toJSON) {\n        return i.toJSON();\n      }
else {\n        return i;\n      }\n    });\n    } else if (typeof value === 'object' && value.toJSON) {\n
fixed[name] = value.toJSON();\n    } else {\n      fixed[name] = value;\n    }\n  }\n  return fixed;\n }\n\n
/**\n * Returns a { @link Node#raws } value. If the node is missing\n * the code style property (because the node
was manually built or cloned),\n * PostCSS will try to autodetect the code style property by looking\n * at other
nodes in the tree.\n

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*\n * @param {string} prop - name of code style property\n * @param {string} [defaultType] - name of
default value, it can be missed\n * if the value is the same as prop\n *\n * @example\n *
const root = postcss.parse('a { background: white }');\n * root.nodes[0].append({ prop: 'color', value: 'black' });\n
*\n * root.nodes[0].nodes[1].raws.before //=> undefined\n * root.nodes[0].nodes[1].raw('before') //=> '\n *\n *
@return {string} code style value\n *^\n raw(prop, defaultType) {\n const str = new Stringifier();\n return
str.raw(this, prop, defaultType);\n }\n\n /**\n * Finds the Root instance of the node's tree.\n *\n * @example\n
*\n * root.nodes[0].nodes[0].root() === root\n *\n * @return {Root} root parent\n *^\n root() {\n let result =
this;\n while (result.parent) result = result.parent;\n return result;\n }\n\n cleanRaws(keepBetween) {\n delete
this.raws.before;\n delete
this.raws.after;\n if (!keepBetween) delete this.raws.between;\n }\n\n positionInside(index) {\n const string =
this.toString();\n let column = this.source.start.column;\n let line = this.source.start.line;\n\n for (let i = 0; i <
index; i++) {\n if (string[i] === '\\n') {\n column = 1;\n line += 1;\n } else {\n column += 1;\n
}\n }\n\n return { line, column };\n }\n\n positionBy(opts) {\n let pos = this.source.start;\n if (opts.index)
{\n pos = this.positionInside(opts.index);\n } else if (opts.word) {\n const index =
this.toString().indexOf(opts.word);\n if (index !== -1) pos = this.positionInside(index);\n }\n return pos;\n
}\n\n removeSelf() {\n warnOnce('Node#removeSelf is deprecated. Use Node#remove.);\n return
this.remove();\n }\n\n replace(nodes) {\n warnOnce('Node#replace is deprecated. Use Node#replaceWith');\n
return this.replaceWith(nodes);\n }\n\n style(own, detect)
{\n warnOnce('Node#style() is deprecated. Use Node#raw()');\n return this.raw(own, detect);\n }\n\n
cleanStyles(keepBetween) {\n warnOnce('Node#cleanStyles() is deprecated. Use Node#cleanRaws()');\n return
this.cleanRaws(keepBetween);\n }\n\n get before() {\n warnOnce('Node#before is deprecated. Use
Node#raws.before');\n return this.raws.before;\n }\n\n set before(val) {\n warnOnce('Node#before is
deprecated. Use Node#raws.before');\n this.raws.before = val;\n }\n\n get between() {\n
warnOnce('Node#between is deprecated. Use Node#raws.between');\n return this.raws.between;\n }\n\n set
between(val) {\n warnOnce('Node#between is deprecated. Use Node#raws.between');\n this.raws.between =
val;\n }\n\n /**\n * @memberof Node#\n * @member {string} type - String representing the node's type.\n *
Possible values are `root`, `atrule`, `rule`,\n * `decl`, or `comment`.\n *\n *
@example\n
* postcss.decl({ prop: 'color', value: 'black' }).type //=> 'decl'\n *\n\n /**\n * @memberof Node#\n *
@member {Container} parent - the node's parent node.\n *\n * @example\n * root.nodes[0].parent == root;\n
*\n\n /**\n * @memberof Node#\n * @member {source} source - the input source of the node\n *\n * The
property is used in source map generation.\n *\n * If you create a node manually (e.g., with `postcss.decl()`),\n
* that node will not have a `source` property and will be absent\n * from the source map. For this reason, the plugin
developer should\n * consider cloning nodes to create new ones (in which case the new node's\n * source will
reference the original, cloned node) or setting\n * the `source` property manually.\n *\n * ````js\n * // Bad\n *
const prefixed = postcss.decl({\n * prop: '-moz-' + decl.prop,\n * value: decl.value\n * });\n *\n * // Good\n
* const prefixed = decl.clone({ prop: '-moz-' + decl.prop
});\n *\n * ````\n *\n * ````js\n * if ( atrule.name === 'add-link' ) {\n * const rule = postcss.rule({ selector: 'a',
source: atrule.source });\n * atrule.parent.insertBefore(atrule, rule);\n * }\n * ````\n *\n * @example\n *
decl.source.input.from //=> '/home/ai/a.sass'\n * decl.source.start //=> { line: 10, column: 2 }\n *
decl.source.end //=> { line: 10, column: 12 }\n *\n\n /**\n * @memberof Node#\n * @member {object}
raws - Information to generate byte-to-byte equal\n * node string as it was in the origin input.\n *\n
* Every parser saves its own properties,\n * but the default CSS parser uses:\n *\n * * `before`: the space
symbols before the node. It also stores `*\n * and `_` symbols before the declaration (IE hack).\n * * `after`: the
space symbols after the last child of the node\n * to the end of the node.\n * * `between`: the symbols between
the property and value\n * for declarations,
selector and `{` for rules, or last parameter\n * and `{` for at-rules.\n * * `semicolon`: contains true if the last
child has\n * an (optional) semicolon.\n * * `afterName`: the space between the at-rule name and its

```

parameters.  
`* * `left``: the space symbols between `/*`` and the comment's text.  
`* * `right``: the space symbols between the comment's text  
`*` and `<code>*&#47;</code>`.  
`* * `important``: the content of the important statement,  
`*` if it is not just `!important``.  
`*\n * PostCSS cleans selectors, declaration values and at-rule parameters\n * from comments and extra spaces, but it stores origin content in raws\n * properties. As such, if you don't change a declaration's value,\n * PostCSS will use the raw value with comments.\n * \n * @example\n * const root = postcss.parse('a {\n color:black\n}')\n * root.first.first.raws //=> { before: '\n ', between: ':' }\n */\n\nexport default Node;\n", "// @flow\nimport warnOnce from './warn-once';\nimport Node from './node';\n\n/**\n * Represents a CSS declaration.\n * \n * @extends Node\n * \n * @example\n * const root = postcss.parse('a { color: black }');\n * const decl = root.first.first;\n * decl.type //=> 'decl'\n * decl.toString() //=> ' color: black'\n */\n\nexport class Declaration extends Node {\n constructor(defaults) {\n super(defaults);\n this.type = 'decl';\n }\n\n get _value() {\n warnOnce('Node#_value was deprecated. Use Node#raws.value');\n return this.raws.value;\n }\n\n set _value(val) {\n warnOnce('Node#_value was deprecated. Use Node#raws.value');\n this.raws.value = val;\n }\n\n get _important() {\n warnOnce('Node#_important was deprecated. Use Node#raws.important');\n return this.raws.important;\n }\n\n set _important(val) {\n warnOnce('Node#_important was deprecated. Use Node#raws.important');\n this.raws.important = val;\n }\n\n /**\n * @memberof Declaration#\n * @member {string} prop - the declaration's property name\n * \n * @example\n * const root = postcss.parse('a { color: black }');\n * const decl = root.first.first;\n * decl.prop //=> 'color'\n * \n * @memberof Declaration#\n * @member {string} value - the declaration's value\n * \n * @example\n * const root = postcss.parse('a { color: black }');\n * const decl = root.first.first;\n * decl.value //=> 'black'\n * \n * @memberof Declaration#\n * @member {boolean} important - `true` if the declaration\n * has an !important annotation.\n * \n * @example\n * const root = postcss.parse('a { color: black !important; color: red }');\n * root.first.first.important //=> true\n * root.first.last.important //=> undefined\n * \n * @memberof Declaration#\n * @member {object} raws - Information to generate byte-to-byte equal\n * node string as it was in the origin input.\n * \n * Every parser saves its own properties,\n * but the default CSS parser uses:  
* * `before`: the space symbols before the node. It also stores *`  
* ` and  `_ symbols before the declaration (IE hack).  
* * `between`: the symbols between the property and value  
* for declarations, selector and  `{` for rules, or last parameter  
* and  `} for at-rules.  
* * `important`: the content of the important statement,  
* if it is not just !important`.  
*\n * PostCSS cleans declaration from comments and extra spaces,\n * but it stores origin content in raws properties.\n * As such, if you don't change a declaration's value,\n * PostCSS will use the raw value with comments.\n * \n * @example\n * const root = postcss.parse('a {\n color:black\n}')\n * root.first.first.raws //=> { before: '\n ', between: ':' }\n */\n\nexport default Declaration;\n", "// @flow\nimport warnOnce from './warn-once';\nimport Node from './node';\n\n/**\n * Represents a comment between declarations or statements (rule and at-rules).\n * \n * Comments inside selectors, at-rule parameters, or declaration values\n * will be stored in the `raws` properties explained above.\n * \n * @extends Node\n */\n\nexport class Comment extends Node {\n constructor(defaults) {\n super(defaults);\n this.type = 'comment';\n }\n\n get left() {\n warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n return this.raws.left;\n }\n\n set left(val) {\n warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n this.raws.left = val;\n }\n\n get right() {\n warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n return this.raws.right;\n }\n\n set right(val) {\n warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n this.raws.right = val;\n }\n\n /**\n * @memberof Comment#\n * @member {string} text - the comment's text\n * \n * @memberof Comment#\n * @member {object} raws - Information to generate byte-to-byte equal\n * node string as it was in the origin input.\n * \n * Every parser saves its own properties,\n * but the default CSS parser uses:  
* * `before`: the space symbols before the node.  
* * `left`: the space symbols between /*` and the comment's text.  
* * `right`: the space symbols between the comment's text.  
*/\n\nexport default Comment;\n", "// @flow\nimport Declaration from './declaration';\nimport tokenizer from './tokenizer';\nimport Comment from './comment';\nimport AtRule from './at-`

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rule';\nimport Root from './root';\nimport Rule from './rule';\n\nexport default class Parser {\n  constructor(input) {\n    this.input = input;\n    this.pos = 0;\n    this.root = new Root();\n    this.current = this.root;\n    this.spaces = "";\n    this.semicolon = false;\n    this.root.source = { input, start: { line: 1, column: 1 } };\n  }\n\n  tokenize() {\n    this.tokens = tokenizer(this.input);\n  }\n\n  loop() {\n    let token;\n    while (this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      switch (token[0]) {\n        case 'space':\n        case ';':\n          this.spaces += token[1];\n          break;\n        case '}':\n          this.end(token);\n          break;\n        case 'comment':\n          this.comment(token);\n          break;\n        case 'at-word':\n          this.atrule(token);\n          break;\n        case '{':\n          this.emptyRule(token);\n          break;\n        default:\n          this.other();\n          break;\n      }\n      this.pos += 1;\n    }\n    this.endFile();\n  }\n\n  comment(token) {\n    const node = new Comment();\n    this.init(node, token[2], token[3]);\n    node.source.end = { line: token[4], column: token[5] };\n    const text = token[1].slice(2, -2);\n    if (/^\\s*$/ .test(text)) {\n      node.text = "";\n      node.raws.left = text;\n      node.raws.right = "";\n    } else {\n      const match = text.match(/^(\\s*)([^\s]*)(\\s*)$/);\n      node.text = match[2];\n      node.raws.left = match[1];\n      node.raws.right = match[3];\n    }\n  }\n\n  emptyRule(token) {\n    const node = new Rule();\n    this.init(node, token[2], token[3]);\n    node.selector = "";\n    node.raws.between = "";\n    this.current = node;\n  }\n\n  other() {\n    let token;\n    let end = false;\n    let type = null;\n    let colon = false;\n    let bracket = null;\n    const brackets = [];\n    const start = this.pos;\n    while (this.pos < this.tokens.length) {\n      token = this.tokens[this.pos];\n      type = token[0];\n      if (type === '(' || type === '[') {\n        if (!bracket) bracket = token;\n        brackets.push(type === '(' ? ')' : ']');\n      } else if (brackets.length === 0) {\n        if (type === ';') {\n          if (colon) {\n            this.decl(this.tokens.slice(start, this.pos + 1));\n            return;\n          } else {\n            break;\n          }\n        } else if (type === '{') {\n          this.rule(this.tokens.slice(start, this.pos + 1));\n          return;\n        } else if (type === '}') {\n          this.pos -= 1;\n          end = true;\n          break;\n        } else if (type === ':') {\n          colon = true;\n        }\n      } else if (type === brackets[brackets.length - 1]) {\n        brackets.pop();\n        if (brackets.length === 0) {\n          bracket = null;\n        }\n      }\n      this.pos += 1;\n    }\n    if (this.pos === this.tokens.length) {\n      this.pos -= 1;\n      end = true;\n    }\n    if (brackets.length > 0) this.unclosedBracket(bracket);\n    if (end && colon) {\n      while (this.pos > start) {\n        token = this.tokens[this.pos][0];\n        if (token !== 'space' && token !== 'comment')\n          break;\n        this.pos -= 1;\n      }\n      this.decl(this.tokens.slice(start, this.pos + 1));\n      return;\n    }\n    this.unknownWord(start);\n  }\n\n  rule(tokens) {\n    tokens.pop();\n    const node = new Rule();\n    this.init(node, tokens[0][2], tokens[0][3]);\n    node.raws.between = this.spacesFromEnd(tokens);\n    this.raw(node, 'selector', tokens);\n    this.current = node;\n  }\n\n  decl(tokens) {\n    const node = new Declaration();\n    this.init(node);\n    const last = tokens[tokens.length - 1];\n    if (last[0] === ';') {\n      this.semicolon = true;\n      tokens.pop();\n    }\n    if (last[4]) {\n      node.source.end = { line: last[4], column: last[5] };\n    } else {\n      node.source.end = { line: last[2], column: last[3] };\n    }\n    while (tokens[0][0] !== 'word') {\n      node.raws.before += tokens.shift()[1];\n    }\n    node.source.start = { line: tokens[0][2], column: tokens[0][3] };\n    node.prop = "";\n    while (tokens.length) {\n      const type = tokens[0][0];\n      if (type === ':' || type === 'space' || type === 'comment') {\n        break;\n      }\n      node.prop += tokens.shift()[1];\n    }\n    node.raws.between = "";\n    let token;\n    while (tokens.length) {\n      token = tokens.shift();\n      if (token[0] === ':') {\n        node.raws.between += token[1];\n        break;\n      } else {\n        node.raws.between += token[1];\n      }\n    }\n    if (node.prop[0] === '_' || node.prop[0] === '*') {\n      node.raws.before += node.prop[0];\n      node.prop = node.prop.slice(1);\n    }\n    node.raws.between += this.spacesFromStart(tokens);\n    this.precheckMissedSemicolon(tokens);\n    for (let i = tokens.length - 1; i > 0; i--) {\n      token = tokens[i];\n      if (token[1] === '!important') {\n        node.important = true;\n        let string = this.stringFrom(tokens, i);\n        string = this.spacesFromEnd(tokens) + string;\n        if (string !== '!important')\n          node.raws.important = string;\n        break;\n      } else if (token[1] === 'important') {\n        const cache = tokens.slice(0);\n        let str = "";\n        for (let j = i; j > 0; j--) {\n          const type = cache[j][0];\n          if (str.trim().indexOf('!')

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==== 0 && type !== 'space') {\n      break;\n    }\n    str = cache.pop()[1] + str;\n  }\n  if
(str.trim().indexOf('!') === 0) {\n    node.important = true;\n    node.rows.important = str;\n    tokens =
cache;\n  }\n  }\n  if (token[0] !== 'space' && token[0] !== 'comment') {\n    break;\n  }\n  }\n  this.raw(node, 'value', tokens);\n  if (node.value.indexOf('.') !== -1) this.checkMissedSemicolon(tokens);\n  }\n  atrule(token) {\n    const node = new AtRule();\n    node.name = token[1].slice(1);\n    if (node.name === "") {\n
this.unnamedAtrule(node, token);\n    }\n    this.init(node, token[2], token[3]);\n    let last = false;\n    let open =
false;\n    const params = [];\n    this.pos += 1;\n    while (this.pos < this.tokens.length) {\n      token =
this.tokens[this.pos];\n      if (token[0] === ';') {\n        node.source.end = { line: token[2], column: token[3] };
\n
        this.semicolon = true;\n        break;\n      } else if (token[0] === '{') {\n        open = true;\n        break;\n      } else if
(token[0] === '}') {\n        this.end(token);\n        break;\n      } else {\n        params.push(token);\n      }\n      this.pos += 1;\n    }\n    if (this.pos === this.tokens.length) {\n      last = true;\n    }\n    node.rows.between =
this.spacesFromEnd(params);\n    if (params.length) {\n      node.rows.afterName = this.spacesFromStart(params);\n      this.raw(node, 'params', params);\n      if (last) {\n        token = params[params.length - 1];\n        node.source.end
= { line: token[4], column: token[5] };
\n        this.spaces = node.rows.between;\n        node.rows.between = ";\n      }\n    } else {\n      node.rows.afterName = ";\n      node.params = ";\n    }\n    if (open) {\n      node.nodes = [];\n      this.current = node;\n    }\n    }\n    end(token) {\n      if (this.current.nodes && this.current.nodes.length) {\n
this.current.rows.semicolon
= this.semicolon;\n      }\n      this.semicolon = false;\n      this.current.rows.after = (this.current.rows.after || ") +
this.spaces;\n      this.spaces = ";\n      if (this.current.parent) {\n        this.current.source.end = { line: token[2],
column: token[3] };
\n        this.current = this.current.parent;\n      } else {\n        this.unexpectedClose(token);\n      }\n    }\n    endFile() {\n      if (this.current.parent) this.unclosedBlock();\n      if (this.current.nodes &&
this.current.nodes.length) {\n        this.current.rows.semicolon = this.semicolon;\n      }\n      this.current.rows.after =
(this.current.rows.after || ") + this.spaces;\n    }\n    // Helpers\n    init(node, line, column) {\n      this.current.push(node);\n      node.source = { start: { line, column }, input: this.input };
\n      node.rows.before =
this.spaces;\n      this.spaces = ";\n      if (node.type !== 'comment') this.semicolon = false;\n    }\n    raw(node, prop,
tokens) {\n      let token, type;\n      const length
= tokens.length;\n      let value = ";\n      let clean = true;\n      for (let i = 0; i < length; i += 1) {\n        token = tokens[i];\n        type = token[0];\n        if (type === 'comment' || (type === 'space' && i === length - 1)) {\n          clean = false;\n        } else {\n          value += token[1];\n        }\n      }\n      if (!clean) {\n        const raw = tokens.reduce((all, i) => all + i[1],
");\n        node.rows[prop] = { value, raw };
\n        node[prop] = value;\n      }\n      spacesFromEnd(tokens) {\n        let lastTokenType;\n        let spaces = ";\n        while (tokens.length) {\n          lastTokenType = tokens[tokens.length - 1][0];\n          if (lastTokenType !== 'space' && lastTokenType !== 'comment') break;\n          spaces = tokens.pop()[1] + spaces;\n        }\n        return spaces;\n      }\n      spacesFromStart(tokens) {\n        let next;\n        let spaces = ";\n        while (tokens.length) {\n          next = tokens[0][0];\n          if (next !== 'space' && next !== 'comment') break;\n          spaces += tokens.shift()[1];\n        }\n        return spaces;\n      }\n      stringFrom(tokens, from) {\n        let result = ";\n        for (let i = from; i < tokens.length;
i++) {\n          result += tokens[i][1];\n        }\n        tokens.splice(from, tokens.length - from);\n        return result;\n      }\n      colon(tokens) {\n        let brackets = 0;\n        let token, type, prev;\n        for (let i = 0; i < tokens.length; i++) {\n          token =
tokens[i];\n          type = token[0];\n          if (type === '(') {\n            brackets += 1;\n          } else if (type === ')') {\n            brackets -= 1;\n          } else if (brackets === 0 && type === ':') {\n            if (!prev) {\n              this.doubleColon(token);\n            } else if (prev[0] === 'word' && prev[1] === 'progid') {\n              continue;\n            } else {\n              return i;\n            }\n          }\n          prev = token;\n        }\n        return false;\n      }\n      // Errors\n      unclosedBracket(bracket) {\n        throw
this.input.error('Unclosed bracket', bracket[2], bracket[3]);\n      }\n      unknownWord(start) {\n        const token
= this.tokens[start];\n        throw this.input.error('Unknown word', token[2], token[3]);\n      }\n      unexpectedClose(token) {\n        throw this.input.error('Unexpected }', token[2], token[3]);\n      }\n      unclosedBlock()
{\n        const pos = this.current.source.start;\n        throw this.input.error('Unclosed block', pos.line, pos.column);\n      }\n      doubleColon(token) {\n        throw this.input.error('Double colon', token[2], token[3]);\n      }\n      unnamedAtrule(node,
token) {\n        throw this.input.error('At-rule without name', token[2], token[3]);\n      }\n    }

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precheckMissedSemicolon(tokens) {\n // Hook for Safe Parser\n tokens;\n }\n\n
checkMissedSemicolon(tokens) {\n const colon = this.colon(tokens);\n if (colon === false) return;\n let
founded = 0;\n let token;\n for (let j = colon - 1; j >= 0; j--) {\n token = tokens[j];\n if (token[0] !==
'space') {\n founded += 1;\n if (founded === 2) break;\n }\n }\n throw this.input.error('Missed
semicolon',
token[2], token[3]);\n }\n\n", "// @flow\n\nimport Parser from './parser';\n\nimport Input from './input';\n\nexport
default function parse(css, opts) {\n if (opts && opts.safe) {\n throw new Error('Option safe was removed. ' +
'Use parser: require(\"postcss-safe-parser\");\n }\n\n const input = new Input(css, opts);\n\n const parser = new
Parser(input);\n try {\n parser.tokenize();\n parser.loop();\n } catch (e) {\n if (e.name === 'CssSyntaxError'
&& opts && opts.from) {\n if (/\\.scss$/i.test(opts.from)) {\n e.message +=\n \"\nYou tried to parse
SCSS with ' +\n 'the standard CSS parser; ' +\n 'try again with the postcss-scss parser';\n } else if
(/\\.less$/i.test(opts.from)) {\n e.message +=\n \"\nYou tried to parse Less with ' +\n 'the standard
CSS parser; ' +\n 'try again with the postcss-less parser';\n }\n }\n throw e;\n }\n\n return
parser.root;\n }\n\n", "// @flow\n\nimport
parse from './parse';\n\nimport Root from './root';\n\nimport Rule from './rule';\n\nimport AtRule from './at-rule';\n\nimport
Declaration from './declaration';\n\nimport warnOnce from './warn-once';\n\nimport Comment from './comment';\n\nimport
Node from './node';\n\nfunction cleanSource(nodes) {\n return nodes.map(i => {\n if (i.nodes) i.nodes =
cleanSource(i.nodes);\n delete i.source;\n return i;\n });\n }\n\n/**\n * @callback childCondition\n * @param
{Node} node - container child\n * @param {number} index - child index\n * @param {Node[]} nodes - all
container children\n * @return {boolean}\n * ^/\n/**\n * @callback childIterator\n * @param {Node} node -
container child\n * @param {number} index - child index\n * @return {false|undefined} returning `false` will break
iteration\n * ^/\n/**\n * The {@link Root}, {@link AtRule}, and {@link Rule} container nodes\n * inherit some
common methods to help work with their children.\n * ^*\n * Note that all containers can store any content.
\n * If you write a rule inside\n * a rule, PostCSS will parse it.\n * ^*\n * @extends Node\n * @abstract\n * ^/\n\nclass
Container extends Node {\n push(child) {\n child.parent = this;\n this.nodes.push(child);\n return this;\n }\n\n
/**\n * Iterates through the container's immediate children,\n * calling `callback` for each child.\n * ^*\n *
Returning `false` in the callback will break iteration.\n * ^*\n * This method only iterates through the container's
immediate children.\n * ^*\n * If you need to recursively iterate through all the container's descendant\n * nodes, use
{@link Container#walk}.\n * ^*\n * Unlike the for `{}`-cycle or `Array#forEach` this iterator is safe\n * if you are
mutating the array of child nodes during iteration.\n * ^*\n * PostCSS will adjust the current index to match the
mutations.\n * ^*\n * @param {childIterator} callback - iterator receives each node and index\n * ^*\n * @return
{false|undefined} returns `false` if iteration was broke\n * ^*\n
* @example\n * const root = postcss.parse('a { color: black; z-index: 1 }');\n * const rule = root.first;\n * ^*\n *
for ( let decl of rule.nodes ) {\n * decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n * // Cycle will be
infinite, because cloneBefore moves the current node\n * // to the next index\n * }\n * ^*\n * rule.each(decl =>
{\n * decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n * // Will be executed only for color and z-index\n
* });\n * ^/\n * each(callback) {\n * if (!this.lastEach) this.lastEach = 0;\n * if (!this.indexes) this.indexes = {};\n\n
this.lastEach += 1;\n * const id = this.lastEach;\n * this.indexes[id] = 0;\n * if (!this.nodes) return undefined;\n\n
let index, result;\n * while (this.indexes[id] < this.nodes.length) {\n * index = this.indexes[id];\n * result =
callback(this.nodes[index], index);\n * if (result === false) break;\n\n * this.indexes[id] += 1;\n * }\n\n * delete
this.indexes[id];\n\n * return result;\n * }\n\n /**\n * Traverses the container's descendant nodes, calling callback\n * for each node.\n
* ^*\n * Like container.each(), this method is safe to use\n * if you are mutating arrays during iteration.\n * ^*\n * If
you only need to iterate through the container's immediate children,\n * use {@link Container#each}.\n * ^*\n *
@param {childIterator} callback - iterator receives each node and index\n * ^*\n * @return {false|undefined} returns
`false` if iteration was broke\n * ^*\n * @example\n * root.walk(node => {\n * // Traverses all descendant
nodes.\n * });\n * ^/\n * walk(callback) {\n * return this.each((child, i) => {\n * let result = callback(child, i);\n * if
(result !== false && child.walk) {\n * result = child.walk(callback);\n * }\n * return result;\n * });\n * }\n\n

```

```

/**\n * Traverses the container's descendant nodes, calling callback\n * for each declaration node.\n *\n * If you pass a filter, iteration will only happen over declarations\n * with matching properties.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n *\n * @param {string|RegExp} [prop] - string or regular expression\n * to filter declarations by property name\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkDecls(decl => {\n *   checkPropertySupport(decl.prop);\n * });\n *\n * root.walkDecls('border-radius', decl => {\n *   decl.remove();\n * });\n *\n * root.walkDecls(/^background/, decl => {\n *   decl.value = takeFirstColorFromGradient(decl.value);\n * });\n *\n * walkDecls(prop, callback) {\n *   if (!callback) {\n *     callback = prop;\n *     return this.walk((child, i) => {\n *       if (child.type === 'decl') {\n *         return\n *           callback(child, i);\n *       }\n *     });\n *   } else if (prop instanceof RegExp) {\n *     return this.walk((child, i) => {\n *       if (child.type === 'decl' && prop.test(child.prop)) {\n *         return callback(child, i);\n *       }\n *     });\n *   } else {\n *     return this.walk((child, i) => {\n *       if (child.type === 'decl' && child.prop === prop) {\n *         return\n *           callback(child, i);\n *       }\n *     });\n *   }\n * }\n\n/**\n * Traverses the container's descendant nodes, calling\n * callback\n * for each rule node.\n *\n * If you pass a filter, iteration will only happen over rules\n * with\n * matching selectors.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating\n * arrays during iteration.\n *\n * @param {string|RegExp} [selector] - string or regular expression\n * to filter rules by selector\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return\n * {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * const selectors = [];\n * root.walkRules(rule => {\n *   selectors.push(rule.selector);\n * });\n * console.log(`Your CSS uses\n * ${selectors.length} selectors`);\n *\n * walkRules(selector, callback) {\n *   if (!callback) {\n *     callback =\n *       selector;\n *     return this.walk((child, i) => {\n *       if (child.type === 'rule') {\n *         return callback(child, i);\n *       }\n *     });\n *   } else if (selector instanceof RegExp) {\n *     return this.walk((child, i) => {\n *       if (child.type ===\n *         'rule' && selector.test(child.selector)) {\n *         return callback(child, i);\n *       }\n *     });\n *   } else {\n *     return\n *       this.walk((child, i) => {\n *         if (child.type === 'rule' && child.selector === selector) {\n *           return\n *             callback(child, i);\n *         }\n *       });\n *   }\n * }\n\n/**\n * Traverses the container's descendant nodes, calling\n * callback\n * for each at-rule\n * node.\n *\n * If you pass a filter, iteration will only happen over at-rules\n * that have matching names.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n *\n * @param {string|RegExp} [name] - string or regular expression\n * to filter at-rules by\n * name\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return\n * {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkAtRules(rule => {\n *   if (isOld(rule.name)) rule.remove();\n * });\n *\n * let first = false;\n * root.walkAtRules('charset', rule => {\n *   if (!first) {\n *     first = true;\n *   } else {\n *     rule.remove();\n *   }\n * });\n *\n * walkAtRules(name,\n * callback) {\n *   if (!callback) {\n *     callback = name;\n *     return this.walk((child, i) => {\n *       if (child.type ===\n *         'atrule') {\n *         return\n *           callback(child, i);\n *       }\n *     });\n *   } else if (name instanceof RegExp) {\n *     return this.walk((child, i)\n * => {\n *       if (child.type === 'atrule' && name.test(child.name)) {\n *         return callback(child, i);\n *       }\n *     });\n *   } else {\n *     return this.walk((child, i) => {\n *       if (child.type === 'atrule' && child.name === name) {\n *         return\n *           callback(child, i);\n *       }\n *     });\n *   }\n * }\n\n/**\n * Traverses the container's descendant nodes,\n * calling callback\n * for each comment node.\n *\n * Like {@link Container#each}, this method is safe\n * to\n * use if you are mutating arrays during iteration.\n *\n * @param {childIterator} callback - iterator receives each\n * node and index\n *\n * @return {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkComments(comment => {\n *   comment.remove();\n * });\n *\n * walkComments(callback) {\n *   return this.walk((child, i) => {\n

```

```

    if (child.type === 'comment') {\n      return callback(child, i);\n    }\n  });\n\n  /**\n   * Inserts new nodes
to the start of the container.\n   *\n   * @param {...(Node|object|string|Node[])} children - new nodes\n   *\n   * @return {Node} this node for methods chain\n   *\n   * @example\n   * const decl1 = postcss.decl({ prop: 'color',
value: 'black' });\n   * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n   *\n   * rule.append(decl1, decl2);\n   *\n   * root.append({ name: 'charset', params: '"UTF-8"' }); // at-rule\n   *\n   * root.append({ selector: 'a' }); // rule\n   * rule.append({ prop: 'color', value: 'black' }); //
declaration\n   * rule.append({ text: 'Comment' }) // comment\n   *\n   * root.append('a {}');\n   *\n   * root.first.append('color: black; z-index: 1');\n   *\n   * root.append(...children) {\n    children.forEach(child => {\n      const
nodes = this.normalize(child, this.last);\n      nodes.forEach(node
=> this.nodes.push(node));\n    });\n    return this;\n  }\n\n  /**\n   * Inserts new nodes to the end of the container.\n   *\n   * @param {...(Node|object|string|Node[])} children - new nodes\n   *\n   * @return {Node} this node for
methods chain\n   *\n   * @example\n   * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n   * const decl2
= postcss.decl({ prop: 'background-color', value: 'white' });\n   * rule.prepend(decl1, decl2);\n   *\n   * root.append({
name: 'charset', params: '"UTF-8"' }); // at-rule\n   * root.append({ selector: 'a' }); // rule\n   *
rule.append({ prop: 'color', value: 'black' }); // declaration\n   * rule.append({ text: 'Comment' }) //
comment\n   *\n   * root.append('a {}');\n   *\n   * root.first.append('color: black; z-index: 1');\n   *\n   * root.prepend(...children)
{\n    children = children.reverse();\n    children.forEach(child => {\n      const nodes = this.normalize(child,
this.first,
'prepend').reverse();\n      nodes.forEach(node => this.nodes.unshift(node));\n      for (const id in this.indexes) {\n
this.indexes[id] = this.indexes[id] + nodes.length;\n      }\n    });\n    return this;\n  }\n\n  cleanRaws(keepBetween)
{\n    super.cleanRaws(keepBetween);\n    if (this.nodes) {\n      this.nodes.forEach(node =>
node.cleanRaws(keepBetween));\n    }\n  }\n\n  /**\n   * Insert new node before old node within the container.\n   *\n   * @param {Node|number} exist
- child or child's index.\n   * @param {Node|object|string|Node[]} add
- new node\n   *\n   * @return {Node} this node for methods chain\n   *\n   * @example\n   * rule.insertBefore(decl,
decl.clone({ prop: '-webkit-' + decl.prop }));\n   *\n   * rule.insertBefore(exist, add) {\n    exist = this.index(exist);\n    const type = exist === 0 ? 'prepend' : false;\n    const nodes = this.normalize(add, this.nodes[exist], type).reverse();\n
    nodes.forEach(node => this.nodes.splice(exist, 0, node));\n  }\n\n  let index;\n  for (const id in this.indexes) {\n    index = this.indexes[id];\n    if (exist <= index) {\n
this.indexes[id] = index + nodes.length;\n    }\n  }\n\n  return this;\n}\n\n  /**\n   * Insert new node after old
node within the container.\n   *\n   * @param {Node|number} exist
- child or child's index\n   * @param
{Node|object|string|Node[]} add - new node\n   *\n   * @return {Node} this node for methods chain\n   *\n   * @example\n   * rule.insertAfter(exist, add) {\n    exist = this.index(exist);\n    const nodes = this.normalize(add,
this.nodes[exist]).reverse();\n    nodes.forEach(node => this.nodes.splice(exist + 1, 0, node));\n  }\n\n  let index;\n  for
(const id in this.indexes) {\n    index = this.indexes[id];\n    if (exist < index) {\n      this.indexes[id] = index +
nodes.length;\n    }\n  }\n\n  return this;\n}\n\n  remove(child) {\n    if (typeof child !== 'undefined') {\n      warnOnce('Container#remove is deprecated. ' + 'Use
Container#removeChild');\n      this.removeChild(child);\n    } else {\n      super.remove();\n    }\n    return this;\n  }\n\n  /**\n   * Removes node from the container and cleans the parent properties\n   * from the node and its
children.\n   *\n   * @param {Node|number} child - child or child's index\n   *\n   * @return {Node} this node for
methods chain\n   *\n   * @example\n   * rule.nodes.length // => 5\n   * rule.removeChild(decl);\n   *\n   * rule.nodes.length // => 4\n   * decl.parent // => undefined\n   *\n   * rule.removeChild(child) {\n    child =
this.index(child);\n    this.nodes[child].parent = undefined;\n    this.nodes.splice(child, 1);\n  }\n\n  let index;\n  for
(const id in this.indexes) {\n    index = this.indexes[id];\n    if (index >= child) {\n      this.indexes[id] = index -
1;\n    }\n  }\n\n  return this;\n}\n\n  /**\n   * Removes all children from the container\n   * and cleans their
parent properties.\n   *\n   * @return {Node} this node for methods
chain\n   *\n   * @example\n   * rule.removeAll();\n   *\n   * rule.nodes.length // => 0\n   *\n   * rule.removeAll() {\n    this.nodes.forEach(node => (node.parent = undefined));\n    this.nodes = [];\n    return this;\n  }\n\n  /**\n   *
Passes all declaration values within the container that match pattern\n   * through callback, replacing those values

```

with the returned result of callback. This method is useful if you are using a custom unit or function and need to iterate through all values.

`@param {string|RegExp} pattern` - replace pattern

`@param {object} opts` - options to speed up the search

`@param {string|string[]} opts.props` - an array of property names

`@param {string} opts.fast` - string that's used to narrow down values and speed up the regexp search

`@param {function|string} callback` - string to replace pattern or callback that returns a new value.

The callback will receive the same arguments as those passed to a function parameter of `'String#replace'`.

`@return {Node}` this node for methods `chain`

`@example`

```

root.replaceValues(/\\d+rem/, { fast: 'rem' }, string => {
  return 15 * parseInt(string) + 'px';
});
replaceValues(pattern, opts, callback) {
  if (!callback) {
    callback = opts;
    opts = {};
  }
  this.walkDecls(decl => {
    if (opts.props && opts.props.indexOf(decl.prop) === -1) return;
    if (opts.fast && decl.value.indexOf(opts.fast) === -1) return;
    decl.value = decl.value.replace(pattern, callback);
  });
  return this;
}
/**
 * Returns `true` if callback returns `true` for all of the container's children.
 * @param {childCondition} condition - iterator returns true or false.
 * @return {boolean} is every child pass condition
 * @example
 * const noPrefixes = rule.every(i => i.prop[0] !== '-');
 * ^ every(condition) {
 *   return this.nodes.every(condition);
 * }
 * Returns `true` if callback returns `true` for (at least) one of the container's children.
 * @param {childCondition} condition - iterator returns true or false.
 * @return {boolean} is some child pass condition
 * @example
 * const hasPrefix = rule.some(i => i.prop[0] === '-');
 * ^ some(condition) {
 *   return this.nodes.some(condition);
 * }
 * Returns a `child`'s index within the {@link Container#nodes} array.
 * @param {Node} child - child of the current container.
 * @return {number} child index
 * @example
 * rule.index( rule.nodes[2] ) // => 2
 * index(child) {
 *   if (typeof child === 'number') {
 *     return child;
 *   } else {
 *     return this.nodes.indexOf(child);
 *   }
 * }
 * The container's first child.
 * @type {Node}
 * @example
 * rule.first === rules.nodes[0];
 * ^ get first() {
 *   if (!this.nodes) return undefined;
 *   return this.nodes[0];
 * }
 * The container's last child.
 * @type {Node}
 * @example
 * rule.last === rule.nodes[rule.nodes.length - 1];
 * ^ get last() {
 *   if (!this.nodes) return undefined;
 *   return this.nodes[this.nodes.length - 1];
 * }
 * normalize(nodes, sample) {
 *   if (typeof nodes === 'string') {
 *     nodes = cleanSource(parse(nodes).nodes);
 *   } else if (!Array.isArray(nodes)) {
 *     if (nodes.type === 'root') {
 *       nodes = nodes.nodes;
 *     } else if (nodes.type) {
 *       nodes = [nodes];
 *     } else if (nodes.prop) {
 *       if (typeof nodes.value === 'undefined') {
 *         throw new Error('Value field is missed in node creation');
 *       } else if (typeof nodes.value !== 'string') {
 *         nodes.value = String(nodes.value);
 *       }
 *       nodes = [new Declaration(nodes)];
 *     } else if (nodes.selector) {
 *       nodes = [new Rule(nodes)];
 *     } else if (nodes.name) {
 *       nodes = [new AtRule(nodes)];
 *     } else if (nodes.text) {
 *       nodes = [new Comment(nodes)];
 *     } else {
 *       throw new Error('Unknown node type in node creation');
 *     }
 *   }
 *   const processed = nodes.map(i => {
 *     if (typeof i.rows === 'undefined') i = this.rebuild(i);
 *     if (i.parent) i = i.clone();
 *     if (typeof i.rows.before === 'undefined') {
 *       if (sample && typeof sample.rows.before !== 'undefined') {
 *         i.rows.before = sample.rows.before.replace(/^[^\\s]/g, "");
 *       }
 *     }
 *     i.parent = this;
 *     return i;
 *   });
 *   return processed;
 * }
 * rebuild(node, parent) {
 *   let fix;
 *   if (node.type === 'root') {
 *     fix = new Root();
 *   } else if (node.type === 'atruler') {
 *     fix = new AtRule();
 *   } else if (node.type === 'rule') {
 *     fix = new Rule();
 *   } else if (node.type === 'decl') {
 *     fix = new Declaration();
 *   } else if (node.type === 'comment') {
 *     fix = new Comment();
 *   }
 *   for (const i in node) {
 *     if (i === 'nodes') {
 *       fix.nodes = node.nodes.map(j => this.rebuild(j, fix));
 *     } else if (i === 'parent' && parent) {
 *       fix.parent = parent;
 *     } else if (node.hasOwnProperty(i)) {
 *       fix[i] = node[i];
 *     }
 *   }
 *   return fix;
 * }
 * eachInside(callback) {
 *   warnOnce('Container#eachInside is deprecated. ' + 'Use Container#walk

```

```

instead.);\n return this.walk(callback);\n }\n\n eachDecl(prop, callback) {\n warnOnce('Container#eachDecl is
deprecated. ' + 'Use
Container#walkDecls instead.);\n return this.walkDecls(prop, callback);\n }\n\n eachRule(selector, callback) {\n
warnOnce('Container#eachRule is deprecated. ' + 'Use Container#walkRules instead.);\n return
this.walkRules(selector, callback);\n }\n\n eachAtRule(name, callback) {\n warnOnce('Container#eachAtRule is
deprecated. ' + 'Use Container#walkAtRules instead.);\n return this.walkAtRules(name, callback);\n }\n\n
eachComment(callback) {\n warnOnce('Container#eachComment is deprecated. ' + 'Use
Container#walkComments instead.);\n return this.walkComments(callback);\n }\n\n get semicolon() {\n
warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n return this.raws.semicolon;\n }\n\n set
semicolon(val) {\n warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n
this.raws.semicolon = val;\n }\n\n get after() {\n warnOnce('Node#after is deprecated. Use Node#raws.after');\n
return this.raws.after;\n }\n\n
set after(val) {\n warnOnce('Node#after is deprecated. Use Node#raws.after');\n this.raws.after = val;\n }\n\n
/**\n * @memberof Container#\n * @member {Node[]} nodes - an array containing the container's children\n
*\n * @example\n * const root = postcss.parse('a { color: black }');\n * root.nodes.length //=> 1\n *
root.nodes[0].selector //=> 'a'\n * root.nodes[0].nodes[0].prop //=> 'color'\n * /\n\nexport default
Container;\n", "// @flow\nimport Container from './container';\nimport warnOnce from './warn-once';\n\n/**\n *
Represents an at-rule.\n *\n * If it's followed in the CSS by a { } block, this node will have\n * a nodes property
representing its children.\n *\n * @extends Container\n *\n * @example\n * const root = postcss.parse('@charset
\'UTF-8\'; @media print { });\n *\n * const charset = root.first;\n * charset.type //=> 'atrule'\n * charset.nodes //=>
undefined\n *\n * const media = root.last;\n * media.nodes //=> []\n *\n\nAtRule extends Container {\n constructor(defaults) {\n super(defaults);\n this.type = 'atrule';\n }\n\n
append(...children) {\n if (!this.nodes) this.nodes = [];\n return super.append(...children);\n }\n\n
prepend(...children) {\n if (!this.nodes) this.nodes = [];\n return super.prepend(...children);\n }\n\n
get afterName() {\n warnOnce('AtRule#afterName was deprecated. Use AtRule#raws.afterName');\n return
this.raws.afterName;\n }\n\n set afterName(val) {\n warnOnce('AtRule#afterName was deprecated. Use
AtRule#raws.afterName');\n this.raws.afterName = val;\n }\n\n get _params() {\n warnOnce('AtRule#_params
was deprecated. Use AtRule#raws.params');\n return this.raws.params;\n }\n\n set _params(val) {\n
warnOnce('AtRule#_params was deprecated. Use AtRule#raws.params');\n this.raws.params = val;\n }\n\n /**\n
* @memberof AtRule#\n * @member {string} name - the at-rule's name immediately follows the '@'\n *\n *
@example\n
* const root = postcss.parse('@media print { });\n * media.name //=> 'media'\n * const media = root.first;\n
*\n\n /**\n * @memberof AtRule#\n * @member {string} params - the at-rule's parameters, the values\n *
that follow the at-rule's name but precede\n * any { } block\n *\n * @example\n *
const root = postcss.parse('@media print, screen { });\n * const media = root.first;\n * media.params //=> 'print,
screen'\n *\n\n /**\n * @memberof AtRule#\n * @member {object} raws - Information to generate byte-to-
byte equal\n * node string as it was in the origin input.\n *\n * Every parser saves its own
properties,\n * but the default CSS parser uses:\n *\n * * `before`: the space symbols before the node. It also
stores ` ` \n * and ` ` symbols before the declaration (IE hack).\n * * `after`: the space symbols after the last
child of the node\n * to the end
of the node.\n * * `between`: the symbols between the property and value\n * for declarations, selector and `{`
for rules, or last parameter\n * and `{` for at-rules.\n * * `semicolon`: contains true if the last child has\n *
an (optional) semicolon.\n * * `afterName`: the space between the at-rule name and its parameters.\n *\n * PostCSS
cleans at-rule parameters from comments and extra spaces,\n * but it stores origin content in raws properties.\n *
As such, if you don't change a declaration's value,\n * PostCSS will use the raw value with comments.\n *\n *
@example\n * const root = postcss.parse(' @media\nprint { }\n')\n * root.first.first.raws //=> { before: ' ',\n *
// between: ' ',\n * // afterName: '\n',\n * // after: '\n' }\n
*\n\nexport default AtRule;\n", "// @flow\n\n/**\n * Contains helpers for safely splitting lists of CSS values,\n *

```



```

!important' });\n * }\n */\n * ^\n class Warning {\n /*\n * @param {string} text - warning message\n * @param {Object} [opts] - warning options\n * @param {Node} opts.node - CSS node that caused the warning\n * @param {string} opts.word - word in CSS source that caused the warning\n * @param {number} opts.index - index in CSS node string that caused\n * the warning\n * @param {string} opts.plugin - name of the plugin that created\n * this warning. {@link Result#warn} fills\n * this property automatically.\n */\n constructor(text, opts = {}) {\n /*\n * @member {string} - Type to filter warnings from\n * {@link Result#messages}. Always equal\n * to `\"warning\"`.\n */\n * @example\n * const nonWarning = result.messages.filter(i => i.type !== 'warning')\n * ^\n * this.type = 'warning';\n */\n * @member {string} - The warning message.\n * @example\n * warning.text //=> 'Try to avoid !important'\n * ^\n * this.text = text;\n * if (opts.node && opts.node.source) {\n * const pos = opts.node.positionBy(opts);\n * /*\n * @member {number} - Line in the input file\n * with this warning's source\n * @example\n * warning.line //=> 5\n * ^\n * this.line = pos.line;\n */\n * @member {number} - Column in the input file\n * with this warning's source.\n * @example\n * warning.column //=> 6\n * ^\n * this.column = pos.column;\n } }\n for (const opt in opts) this[opt] = opts[opt];\n }\n */\n * Returns a warning position and message.\n * @example\n * warning.toString() //=> 'postcss-lint:a.css:10:14: Avoid !important'\n * @return {string} warning position and message\n * ^\n * toString() {\n * if (this.node) {\n * return this.node.error(this.text, {\n * plugin: this.plugin,\n * index: this.index,\n * word: this.word,\n * }).message;\n * } else if (this.plugin) {\n * return ` ${this.plugin}: ${this.text}`;\n * } else {\n * return this.text;\n * }\n * }\n */\n * @memberof Warning#\n * @member {string} plugin - The name of the plugin that created\n * it will fill this property automatically.\n * this warning. When you call {@link Node#warn}\n * @example\n * warning.plugin //=> 'postcss-important'\n * ^\n */\n * @memberof Warning#\n * @member {Node} node - Contains the CSS node that caused the warning.\n * @example\n * warning.node.toString() //=> 'color: white !important'\n * ^\n *}\n\nexport default Warning;\n", "/* @flow\nimport Warning from './warning';\n*/\n * @typedef {object} Message\n * @property {string} type - message type\n * @property {string} plugin - source PostCSS plugin name\n * ^\n */\n * Provides the result of the PostCSS transformations.\n * A Result instance is returned by {@link LazyResult#then}\n * or {@link Root#toResult} methods.\n * @example\n * postcss([cssnext]).process(css).then(function (result) {\n * console.log(result.css);\n * });\n * @example\n * var result2 = postcss.parse(css).toResult();\n */\n class Result {\n /*\n * @param {Processor} processor - processor used for this transformation.\n * @param {Root} root - Root node after all transformations.\n * @param {processOptions} opts - options from the {@link Processor#process}\n * or {@link Root#toResult}\n * ^\n * constructor(processor, root, opts) {\n /*\n * @member {Processor} - The Processor instance used\n * for this transformation.\n * @example\n * for ( let plugin of result.processor.plugins) {\n * if ( plugin.postcssPlugin === 'postcss-bad' ) {\n * throw 'postcss-good is incompatible with postcss-bad';\n * }\n * });\n * ^\n * this.processor = processor;\n */\n * @member {Message[]} - Contains messages from plugins\n * (e.g., warnings or custom messages).\n * Each message should have type\n * and plugin properties.\n * @example\n * postcss.plugin('postcss-min-browser', () => {\n * return (root, result) => {\n * var browsers = detectMinBrowsersByCanIUse(root);\n * result.messages.push({\n * type: 'min-browser',\n * plugin: 'postcss-min-browser',\n * browsers: browsers\n * });\n * });\n * ^\n * this.messages = [];\n */\n * @member {Root} - Root node after all transformations.\n * @example\n * root.toResult().root == root;\n * ^\n * this.root = root;\n */\n * @member {processOptions} - Options from the {@link Processor#process}\n * or {@link Root#toResult} call\n * that produced this Result instance.\n * @example\n * root.toResult(opts).opts == opts;\n * ^\n * this.opts = opts;\n */\n * @member {string} - A CSS string representing of {@link Result#root}.\n * }\n }

```

```

@example\n * postcss.parse('a{').toResult().css //=> \"a{\"\n *^\n this.css = undefined;\n /**\n *
@member {SourceMapGenerator} - An instance of `SourceMapGenerator`\n * class from the
`source-map` library,\n
* representing changes\n * to the {@link Result#root} instance.\n *\n
* @example\n * result.map.toJSON() //=> { version: 3, file: 'a.css', ... }\n *\n * @example\n * if (
result.map) {\n * fs.writeFileSync(result.opts.to + '.map', result.map.toString());\n * }\n *^\n this.map =
undefined;\n }\n\n/**\n * Returns for {@link Result#css} content.\n *\n * @example\n * result + "====
result.css\n *\n * @return {string} string representing of {@link Result#root}\n *^\n toString() {\n return
this.css;\n }\n\n/**\n * Creates an instance of {@link Warning} and adds it\n * to {@link Result#messages}.\n
*\n * @param {string} text - warning message\n * @param {Object} [opts] - warning options\n *
@param {Node} opts.node - CSS node that caused the warning\n * @param {string} opts.word - word in CSS
source that caused the warning\n
* @param {number} opts.index - index in CSS node string that caused\n * the warning\n *
@param {string} opts.plugin - name of the plugin that created\n * this warning. {@link
Result#warn} fills\n * this property automatically.\n *\n * @return {Warning} created
warning\n *\n warn(text, opts = {}) {\n if (!opts.plugin) {\n if (this.lastPlugin &&
this.lastPlugin.postcssPlugin) {\n opts.plugin = this.lastPlugin.postcssPlugin;\n }\n }\n\n const warning =
new Warning(text, opts);\n this.messages.push(warning);\n\n return warning;\n }\n\n/**\n * Returns warnings
from plugins. Filters {@link Warning} instances\n * from {@link Result#messages}.\n *\n * @example\n *
result.warnings().forEach(warn => {\n * console.warn(warn.toString());\n * });\n *\n * @return {Warning[]}
warnings from plugins\n *\n warnings() {\n return this.messages.filter(i
=> i.type === 'warning');\n }\n\n/**\n * An alias for the {@link Result#css} property.\n * Use it with syntaxes
that generate non-CSS output.\n * @type {string}\n *\n * @example\n * result.css === result.content;\n *^\n
get content() {\n return this.css;\n }\n}\n\nexport default Result;\n", "// @flow\nimport stringify from
'./stringify';\nimport warnOnce from './warn-once';\nimport Result from './result';\nimport parse from
'./parse';\n\nfunction isPromise(obj) {\n return typeof obj === 'object' && typeof obj.then ===
'function';\n }\n\n/**\n * @callback onFulfilled\n * @param {Result} result\n *^\n\n/**\n * @callback onRejected\n
* @param {Error} error\n *^\n\n/**\n * A Promise proxy for the result of PostCSS transformations.\n *\n * A
`LazyResult` instance is returned by {@link Processor#process}.\n *\n * @example\n * const lazy =
postcss([cssnext]).process(css);\n *^\n\nclass LazyResult {\n constructor(processor, css, opts) {\n this.stringified
= false;\n this.processed = false;\n\n let root;\n if (typeof css === 'object' && css.type === 'root') {\n root =
css;\n } else if (css instanceof LazyResult || css instanceof Result) {\n root = css.root;\n if (css.map) {\n
if (typeof opts.map === 'undefined') opts.map = {};\n if (!opts.map.inline) opts.map.inline = false;\n
opts.map.prev = css.map;\n }\n } else {\n let parser = parse;\n if (opts.syntax) parser =
opts.syntax.parse;\n if (opts.parser) parser = opts.parser;\n if (parser.parse) parser = parser.parse;\n\n try
{\n root = parser(css, opts);\n } catch (error) {\n this.error = error;\n }\n }\n\n this.result = new
Result(processor, root, opts);\n }\n\n /**\n * Returns a {@link Processor} instance, which will be used\n * for
CSS transformations.\n * @type {Processor}\n *^\n get processor() {\n return this.result.processor;\n }\n\n
/**\n * Options from
the {@link Processor#process} call.\n * @type {processOptions}\n *^\n get opts() {\n return this.result.opts;\n
}\n\n /**\n * Processes input CSS through synchronous plugins, converts `Root`\n * to a CSS string and returns
{@link Result#css}.\n *\n * This property will only work with synchronous plugins.\n * If the processor
contains any asynchronous plugins\n * it will throw an error. This is why this method is only\n * for debug
purpose, you should always use {@link LazyResult#then}.\n *\n * @type {string}\n * @see Result#css\n *^\n
get css() {\n return this.stringify().css;\n }\n\n /**\n * An alias for the `css` property. Use it with syntaxes\n
* that generate non-CSS output.\n *\n * This property will only work with synchronous plugins.\n * If the
processor contains any asynchronous plugins\n * it will throw an error. This is why this method is only\n * for
debug purpose, you should always use {@link LazyResult#then}.\n *\n

```



```

* @type {string}\n * @see Result#content\n * ^\n get content() {\n return this.stringify().content;\n }\n\n /**\n * Processes input CSS through synchronous plugins\n * and returns {@link Result#map}.\n * This property\n will only work with synchronous plugins.\n * If the processor contains any asynchronous plugins\n * it will throw\n an error. This is why this method is only\n * for debug purpose, you should always use {@link\n LazyResult#then}.\n * This property will only work with synchronous plugins. If the processor\n * contains any\n asynchronous plugins it will throw an error.\n * This is why this method is only for debug purpose,\n * you\n should always use {@link LazyResult#then}.\n * This property will only work with synchronous plugins. If the\n processor\n * contains any asynchronous plugins it will throw an error.\n * This is why this method is only\n for debug purpose,\n * you should always use {@link LazyResult#then}.\n * @type {Root}\n * @see Result#root\n * ^\n get root() {\n return this.sync().root;\n }\n\n /**\n * Processes input CSS through synchronous plugins\n * and returns {@link Result#messages}.\n * This property will only work with synchronous plugins. If the\n processor\n * contains any asynchronous plugins it will throw an error.\n * This is why this method is only\n for debug purpose,\n * you should always use {@link LazyResult#then}.\n * @type {Message[]}\n * @see\n Result#messages\n * ^\n get messages() {\n return this.sync().messages;\n }\n\n /**\n * Processes input CSS\n through synchronous plugins\n * and calls {@link Result#warnings}.\n * @return {Warning[]} warnings\n from plugins\n * ^\n warnings() {\n return this.sync().warnings;\n }\n\n /**\n * Alias for the {@link\n LazyResult#css} property.\n * @example\n * lazy + " === lazy.css;\n * @return {string} output\n CSS\n * ^\n toString() {\n return this.css;\n }\n\n /**\n *

```

Processes input CSS through synchronous and asynchronous plugins and calls `onFulfilled` with a Result instance. If a plugin throws an error, the `onRejected` callback will be executed. It implements standard Promise API.

```

* @param {onFulfilled} onFulfilled - callback will be executed\n *
when all plugins will finish work\n * @param {onRejected} onRejected - callback will be executed on any\n error\n * @return {Promise} Promise API to make queue\n * @example\n *
postcss([cssnext]).process(css).then(result => {\n * console.log(result.css);\n * });\n * ^\n then(onFulfilled,\n onRejected) {\n return this.async().then(onFulfilled, onRejected);\n }\n\n /**\n * Processes input CSS through\n synchronous and asynchronous plugins\n * and calls onRejected for each error thrown in any plugin.\n * It\n implements standard Promise API.\n * @param {onRejected} onRejected - callback will\n be executed on any error\n * @return {Promise} Promise API to make queue\n * @example\n *
postcss([cssnext]).process(css).then(result => {\n * console.log(result.css);\n * }).catch(error => {\n * console.error(error);\n * });\n * ^\n catch(onRejected) {\n return this.async().catch(onRejected);\n }\n\n handleError(error, plugin) {\n try {\n this.error = error;\n if (error.name === 'CssSyntaxError' &&\n !error.plugin) {\n error.plugin = plugin.postcssPlugin;\n error.setMessage();\n } else if\n (plugin.postcssVersion) {\n const pluginName = plugin.postcssPlugin;\n const pluginVer =\n plugin.postcssVersion;\n const runtimeVer = this.result.processor.version;\n const a = pluginVer.split('.);\n const b = runtimeVer.split('.);\n if (a[0] !== b[0] || parseInt(a[1]) > parseInt(b[1])) {\n warnOnce(\n `Your current PostCSS version ' + 'is ' + ${runtimeVer}, but ${pluginName}\n ` +\n `uses ${pluginVer}. Perhaps this is ` +\n `the source of the error below.`\n );\n }\n }\n } catch (err) {\n if (console && console.error) console.error(err);\n }\n }\n\n asyncTick(resolve, reject)\n {\n if (this.plugin >= this.processor.plugins.length) {\n this.processed = true;\n return resolve();\n }\n\n try {\n const plugin = this.processor.plugins[this.plugin];\n const promise = this.run(plugin);\n this.plugin\n += 1;\n\n if (isPromise(promise)) {\n promise\n .then(() => {\n this.asyncTick(resolve, reject);\n })\n .catch(error => {\n this.handleError(error, plugin);\n this.processed = true;\n reject(error);\n });\n } else {\n this.asyncTick(resolve, reject);\n } catch (error) {\n this.processed = true;\n reject(error);\n }\n }\n\n async() {\n if\n (this.processed) {\n return new Promise((resolve, reject) => {\n if (this.error) {\n reject(this.error);\n } else {\n resolve(this.stringify());\n }\n });\n }\n\n if (this.processing) {\n return\n this.processing;\n }\n\n this.processing = new Promise((resolve, reject) => {\n if (this.error) return\n reject(this.error);\n this.plugin = 0;\n this.asyncTick(resolve, reject);\n }).then(() => {\n this.processed =

```

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true;\n  return this.stringify();\n  });\n  return this.processing;\n }\n\n sync() {\n  if (this.processed) return
this.result;\n  this.processed = true;\n  if (this.processing) {\n  throw new Error('Use process(css).then(cb) to
work with async plugins');\n  }\n  if (this.error) throw this.error;\n\n
this.result.processor.plugins.forEach(plugin => {\n  const promise = this.run(plugin);\n  if (isPromise(promise))
{\n  throw new Error('Use process(css).then(cb)
to work with async plugins');\n  }\n  });\n  return this.result;\n }\n\n run(plugin) {\n  this.result.lastPlugin =
plugin;\n\n  try {\n  return plugin(this.result.root, this.result);\n  } catch (error) {\n  this.handleError(error,
plugin);\n  throw error;\n  }\n  }\n\n  stringify() {\n  if (this.stringified) return this.result;\n  this.stringified =
true;\n\n  this.sync();\n\n  const opts = this.result.opts;\n  let str = stringify;\n  if (opts.syntax) str =
opts.syntax.stringify;\n  if (opts.stringifier) str = opts.stringifier;\n  if (str.stringify) str = str.stringify;\n\n  let
result = "";\n  str(this.root, i => {\n  result += i;\n  });\n  this.result.css = result;\n\n  return this.result;\n
}\n\n\nexport default LazyResult;\n", "// @flow\nimport LazyResult from './lazy-result';\n\n/**\n * @callback
builder\n * @param {string} part - part of generated CSS connected to this node\n * @param {Node} node
- AST node\n * @param {"start"|"end"} [type] - node's part type\n * @param parser\n * @param
@param {string|toString} css - string with input CSS or any object\n * with toString() method,
like a Buffer\n * @param {processOptions} [opts] - options with only `from` and `map` keys\n * @return
{Root} PostCSS AST\n * @callback stringifier\n * @param {Node} node - start node for
stringifying. Usually {@link Root}.\n * @param {builder} builder - function to concatenate CSS from node's parts\n
* or generate string and source map\n * @return {void}\n * @typedef {object}
syntax\n * @property {parser} parse - function to generate AST by string\n * @property {stringifier} stringifier
- function to generate string by AST\n * @typedef {object} toString\n * @property {function}
toString\n * @callback pluginFunction\n * @param {Root} root - parsed
input CSS\n * @param {Result} result - result to set warnings or check other plugins\n * @typedef
{object} Plugin\n * @property {function} postcss - PostCSS plugin function\n * @typedef {object}
processOptions\n * @property {string} from - the path of the CSS source file.\n *
You should always set `from`,\n * because it is used in source map\n *
generation and syntax error messages.\n * @property {string} to - the path where you'll put the output\n *
CSS file. You should always set `to`\n * to generate correct source
maps.\n * @property {parser} parser - function to generate AST by string\n * @property {stringifier}
stringifier - class to generate string by AST\n * @property {syntax} syntax - object with `parse` and
`stringify`\n
* @property {object} map - source map options\n * @property {boolean} map.inline - does
source map should\n * be embedded in the output\n *
CSS as a base64-encoded\n * comment\n * @property
{string|object|false|function} map.prev - source map content\n * from a previous\n *
processing step\n * (for example, Sass).\n *
PostCSS will try to find\n * previous map\n *
automatically, so you\n * could disable it by\n *
`false` value.\n * @property {boolean} map.sourcesContent - does PostCSS should set\n *
the origin content to map\n * @property {string|false} map.annotation - does
PostCSS should set\n * annotation comment to map\n * @property {string}
map.from - override `from` in map's\n * `sources`\n *
Contains plugins to process CSS. Create one `Processor` instance,\n * initialize its plugins, and then use that
instance on numerous CSS files.\n * @example\n * const processor = postcss([autoprefixer, precss]);\n *
processor.process(css1).then(result => console.log(result.css));\n * processor.process(css2).then(result =>
console.log(result.css));\n * \n * @class Processor\n * @param {Array.<Plugin|pluginFunction>} plugins
- PostCSS\n * plugins.

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See {@link Processor#use} for plugin format.\n *\n constructor(plugins = []) {\n /**\n * @member {string}
- Current PostCSS version.\n *\n * @example\n * if ( result.processor.version.split('.')[0] !== '5' ) {\n *
throw new Error("This plugin works only with PostCSS 5");\n * }\n *\n this.version = '5.2.0';\n /**\n *
@member {pluginFunction[]} - Plugins added to this processor.\n *\n * @example\n * const processor =
postcss([autoprefixer, precss]);\n * processor.plugins.length //=> 2\n *\n this.plugins =
this.normalize(plugins);\n }\n\n /**\n * Adds a plugin to be used as a CSS processor.\n *\n * PostCSS plugin
can be in 4 formats:\n * * A plugin created by {@link postcss.plugin} method.\n * * A function. PostCSS will
pass the function a {@link Root}\n * as the first argument and current {@link Result} instance\n * as the
second.\n * * An object with a `postcss` method. PostCSS will use that
method\n * as described in #2.\n * * Another {@link Processor} instance. PostCSS will copy plugins\n *
from that instance into this one.\n *\n * Plugins can also be added by passing them as arguments when creating\n
* a `postcss` instance (see [ `postcss(plugins)` ]).\n *\n * Asynchronous plugins should return a `Promise`
instance.\n *\n * @param {Plugin|pluginFunction|Processor} plugin - PostCSS plugin\n *
or {@link Processor}\n * with plugins\n *\n * @example\n * const
processor = postcss()\n * .use(autoprefixer)\n * .use(precss);\n *\n * @return {Processes} current processor
to make methods chain\n *\n use(plugin) {\n this.plugins = this.plugins.concat(this.normalize([plugin]));\n
return this;\n }\n\n /**\n * Parses source CSS and returns a {@link LazyResult} Promise proxy.\n * Because
some plugins can be asynchronous it
doesn't make\n * any transformations. Transformations will be applied\n * in the {@link LazyResult}
methods.\n *\n * @param {string|toString|Result} css - String with input CSS or\n * any
object with a `toString()`\n * method, like a Buffer.\n *
Optionally, send a {@link Result}\n * instance and the processor will\n *
take the {@link Root} from it.\n * @param {processOptions} [opts] - options\n *\n * @return
{LazyResult} Promise proxy\n *\n * @example\n * processor.process(css, { from: 'a.css', to: 'a.out.css' })\n *
.then(result => {\n * console.log(result.css);\n * });\n *\n process(css, opts = {}) {\n return new
LazyResult(this, css, opts);\n }\n\n normalize(plugins) {\n let normalized = [];\n plugins.forEach(i => {\n if
(i.postcss)
i = i.postcss;\n\n if (typeof i === 'object' && Array.isArray(i.plugins)) {\n normalized =
normalized.concat(i.plugins);\n } else if (typeof i === 'function') {\n normalized.push(i);\n } else {\n
throw new Error(`${i} is not a PostCSS plugin`);\n }\n });\n return normalized;\n }\n\n\nexport default
Processor;\n\n"/ @flow\nimport './rule'; // break cyclical dependency deadlock - #87\nimport Container from
'./container';\nimport LazyResult from './lazy-result';\nimport Processor from './processor';\nimport warnOnce from
'./warn-once';\n\n/**\n * Represents a CSS file and contains all its parsed nodes.\n *\n * @extends Container\n *\n *
@example\n * const root = postcss.parse('a{color:black} b{z-index:2}');\n * root.type //=> 'root'\n *
root.nodes.length //=> 2\n *\n\nclass Root extends Container {\n constructor(defaults) {\n super(defaults);\n this.type = 'root';\n if (!this.nodes) this.nodes = [];\n }\n\n removeChild(child)
{\n child = this.index(child);\n\n if (child === 0 && this.nodes.length > 1) {\n this.nodes[1].raws.before =
this.nodes[child].raws.before;\n }\n\n return super.removeChild(child);\n }\n\n normalize(child, sample, type)
{\n const nodes = super.normalize(child);\n\n if (sample) {\n if (type === 'prepend') {\n if
(this.nodes.length > 1) {\n sample.raws.before = this.nodes[1].raws.before;\n } else {\n delete
sample.raws.before;\n }\n } else if (this.first !== sample) {\n nodes.forEach(node => {\n
node.raws.before = sample.raws.before;\n });\n }\n }\n\n return nodes;\n }\n\n\n /**\n * Returns a
{@link Result} instance representing the root's CSS.\n *\n * @param {processOptions} [opts] - options with
only `to` and `map` keys\n *\n * @return {Result} result with current root's CSS\n *\n * @example\n * const
root1 = postcss.parse(css1, { from: 'a.css' });\n *
* const root2 = postcss.parse(css2, { from: 'b.css' });\n * root1.append(root2);\n * const result = root1.toResult({
to: 'all.css', map: true });\n *\n toResult(opts = {}) {\n const lazy = new LazyResult(new Processor(), this,
opts);\n return lazy.stringify();\n }\n\n remove(child) {\n warnOnce('Root#remove is deprecated. Use

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Root#removeChild');\n this.removeChild(child);\n }\n\n prevMap() {\n warnOnce('Root#prevMap is
deprecated. Use Root#source.input.map');\n return this.source.input.map;\n }\n\n /**\n * @memberof Root#\n * @member {object} raws - Information to generate byte-to-byte equal\n * node string as it was in
the origin input.\n * Every parser saves its own properties,\n * but the default CSS parser uses:\n * `after`: the space symbols after the last child to the end of file.\n * `semicolon`: is the last child has an (optional)
semicolon.\n * @example\n * postcss.parse('a {}').raws
//=> { after: '\n' }\n * postcss.parse('a {}').raws //=> { after: " " }\n\n\nexport default Root;\n", "//
@flow\nimport './root'; // break cyclical dependency deadlock - #87\nimport CssSyntaxError from './css-syntax-
error';\n// import PreviousMap from './previous-map';\n\nlet sequence = 0;\n\n/**\n * @typedef {object}
filePosition\n * @property {string} file - path to file\n * @property {number} line - source line in file\n *
@property {number} column - source column in file\n * ^\n\n/**\n * Represents the source CSS.\n * ^\n *
@example\n * const root = postcss.parse(css, { from: file });\n * const input = root.source.input;\n * ^\n\nclass Input
{\n /**\n * @param {string} css - input CSS source\n * @param {object} [opts] - {@link Processor#process}
options\n * ^\n constructor(css, opts = {}) {\n /**\n * @member {string} - input CSS source\n * ^\n *
@example\n * const input = postcss.parse('a {}', { from: file }).input;\n * input.css
//=> "a{}";\n * ^\n this.css = css.toString();\n\n if (this.css[0] === '\uFEFF' || this.css[0] === '\uFFFE') {\n
this.css = this.css.slice(1);\n }\n\n if (opts.from) {\n if (/^\w+:\w+\/.test(opts.from)) {\n /**\n *
@member {string} - The absolute path to the CSS source file\n * defined with the `from` option.\n * ^\n *
@example\n * const root = postcss.parse(css, { from: 'a.css' });\n * root.source.input.file
//=> 'home/ai/a.css"\n * ^\n this.file = opts.from;\n } else {\n this.file = path.resolve(opts.from);\n
}\n }\n\n /**\n let map = new PreviousMap(this.css, opts);\n if ( map.text ) {\n /**\n *
@member {PreviousMap} - The input source map passed from\n * a compilation step before
PostCSS\n * (for example, from Sass compiler).\n * ^\n *
@example\n * root.source.input.map.consumer().sources //=> ['a.sass']\n * ^\n
this.map = map;\n let file = map.consumer().file;\n if ( !this.file && file ) this.file =
this.mapResolve(file);\n }\n\n if (!this.file) {\n sequence += 1;\n /**\n * @member {string} -
The unique ID of the CSS source. It will be\n * created if `from` option is not provided\n *
(because PostCSS does not know the file path).\n * ^\n *
@example\n * const root =
postcss.parse(css);\n * root.source.input.file //=> undefined\n * root.source.input.id //=> "<input css 1>"\n
* ^\n this.id = `input css ${sequence}>`; }\n\n if (this.map) this.map.file = this.from;\n }\n\n
error(message, line, column, opts = {}) {\n let result;\n const origin = this.origin(line, column);\n if (origin) {\n
result =
new CssSyntaxError(\n message,\n origin.line,\n origin.column,\n origin.source,\n
origin.file,\n opts.plugin\n );\n } else {\n result = new CssSyntaxError(message, line, column, this.css,
this.file, opts.plugin);\n }\n\n result.input = { line, column, source: this.css }; \n if (this.file) result.input.file =
this.file;\n\n return result;\n }\n\n /**\n * Reads the input source map and returns a symbol position\n * in the
input source (e.g., in a Sass file that was compiled\n * to CSS before being passed to PostCSS).\n * ^\n * @param
{number} line - line in input CSS\n * @param {number} column - column in input CSS\n * ^\n * @return
{filePosition} position in input source\n * ^\n * @example\n * root.source.input.origin(1, 1) //=> { file: 'a.css',
line: 3, column: 1 }\n * ^\n origin(line, column) {\n if (!this.map) return false;\n const consumer =
this.map.consumer();\n const from = consumer.originalPositionFor({
line, column });\n if (!from.source) return false;\n\n const result = {\n file: this.mapResolve(from.source),\n
line: from.line,\n column: from.column,\n }; \n\n const source = consumer.sourceContentFor(from.source);\n
if (source) result.source = source;\n\n return result;\n }\n\n mapResolve(file) {\n if (/^\w+:\w+\/.test(file)) {\n
return file;\n } else {\n return path.resolve(this.map.consumer().sourceRoot || '.', file);\n }\n }\n\n /**\n *
The CSS source identifier. Contains { @link Input#file } if the user\n * set the `from` option, or { @link Input#id } if
they did not.\n * @type {string}\n * ^\n * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n *
root.source.input.from //=> "/home/ai/a.css"\n * ^\n * const root = postcss.parse(css);\n * root.source.input.from

```

```
//=> \<input css 1>\n *^n get from() {\n return this.file || this.id;\n }n\n\n\nexport default Input;\n", "//
@flow\nimport tokenize from './postcss/tokenize';\nimport Comment from './postcss/comment';\nimport Parser
from './postcss/parser';\n\nexport default class SafeParser extends Parser {\n tokenize() {\n this.tokens =
tokenize(this.input, { ignoreErrors: true });\n }n\n\n comment(token) {\n const node = new Comment();\n
this.init(node, token[2], token[3]);\n node.source.end = { line: token[4], column: token[5] };
\n\n let text =
token[1].slice(2);\n if (text.slice(-2) === '*/') text = text.slice(0, -2);\n\n if (/^\s*$/\.test(text)) {\n node.text =
";\n node.raws.left = text;\n node.raws.right = ";\n } else {\n const match =
text.match(/^(\\s*)([^\s]*[^\s])((\\s*)$/);\n node.text = match[2];\n node.raws.left = match[1];\n
node.raws.right = match[3];\n }n }n\n\n unclosedBracket() {\n\n\n unknownWord(start) {\n const buffer =
this.tokens.slice(start, this.pos + 1);\n this.spaces += buffer.map(i => i[1]).join("");\n
}\n\n unexpectedClose() {\n this.current.raws.after += '};\n }n\n\n doubleColon() {\n\n\n unnamedAtrule(node)
{\n node.name = ";\n }n\n\n precheckMissedSemicolon(tokens) {\n const colon = this.colon(tokens);\n if
(colon === false) return;\n\n let split;\n for (split = colon - 1; split >= 0; split--) {\n if (tokens[split][0] ===
'word') break;\n }n\n for (split = 1; split >= 0; split--) {\n if (tokens[split][0] !== 'space') {\n split += 1;\n
break;\n }n }n\n const other = tokens.splice(split, tokens.length - split);\n this.decl(other);\n }n\n\n
checkMissedSemicolon() {\n\n\n endFile() {\n if (this.current.nodes && this.current.nodes.length) {\n
this.current.raws.semicolon = this.semicolon;\n }n\n this.current.raws.after = (this.current.raws.after || "") +
this.spaces;\n\n while (this.current.parent) {\n this.current = this.current.parent;\n this.current.raws.after =
";\n }n }n }n }n", "//
@flow\nimport Input from './postcss/input';\nimport SafeParser from './safe-parser';\n\nexport default function
safeParse(css, opts) {\n const input = new Input(css, opts);\n\n const parser = new SafeParser(input);\n
parser.tokenize();\n parser.loop();\n\n return parser.root;\n }n", "// @flow\n/* eslint-disable import/no-unresolved
*\nimport transformDeclPairs from 'css-to-react-native';\nimport generateComponentId from
'./utils/generateComponentId';\nimport type { RuleSet, StyleSheet } from './types';\nimport flatten from
'./utils/flatten';\n// $FlowFixMe\nimport parse from './vendor/postcss-safe-parser/parse';\n\nlet generated =
{};\n\nexport const resetStyleCache = () => {\n generated = {};\n };\n\n/* In InlineStyle takes arbitrary CSS and
generates a flat object\n\nexport default (styleSheet: StyleSheet) => {\n class InlineStyle {\n rules: RuleSet;\n\n
constructor(rules: RuleSet) {\n this.rules = rules;\n }n\n\n generateStyleObject(executionContext:
Object) {\n const flatCSS = flatten(this.rules, executionContext).join("");\n\n const hash =
generateComponentId(flatCSS);\n if (!generated[hash]) {\n const root = parse(flatCSS);\n const
declPairs = [];\n root.each(node => {\n if (node.type === 'decl') {\n declPairs.push([node.prop,
node.value]);\n } else if (process.env.NODE_ENV !== 'production' && node.type !== 'comment') {\n
/* eslint-disable no-console *\n console.warn(`Node of type ${node.type} not supported as an inline
style`);\n }n }n }n }n // RN currently does not support differing values for the corner radii of Image\n
// components (but does for View). It is almost impossible to tell whether we'll have\n // support, so we'll just
disable multiple values here.\n // https://github.com/styled-components/css-to-react-native/issues/11\n const
styleObject = transformDeclPairs(declPairs, [\n
'borderRadius',\n 'borderWidth',\n 'borderColor',\n 'borderStyle',\n ]);\n const styles =
styleSheet.create({\n generated: styleObject,\n });\n generated[hash] = styles.generated;\n }n\n
return generated[hash];\n }n }n\n\n return InlineStyle;\n };\n", /* eslint-disable *\n\n/* Inlined such that it will be consistently transpiled to an IE-
compatible syntax.\n\n The MIT License (MIT)\n\n Copyright (c) 2014-present, Jon Schlinkert.\n\n Permission is
hereby granted, free of charge, to any person obtaining a copy\n of this software and associated documentation files
(the "Software"), to deal\n in the Software without restriction, including without limitation the rights\n to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell\n copies of the Software, and to permit persons to
whom the Software is\n furnished to do
so, subject to the following conditions:\n\n The above copyright notice and this permission notice shall be included
in\n all copies or substantial portions of the Software.\n\n THE SOFTWARE IS PROVIDED "AS IS",
```

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```

const isObject = val => {
  return (typeof val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val)))
};
const isValidKey = key => {
  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';
};
function mixin(target, val, key) {
  const obj = target[key];
  (isObject(val) && isObject(obj)) ? mixinDeep(obj, val) : target[key] = val;
}
export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }
  return target;
}
// @flow
import { EMPTY_OBJECT } from './empties';
type Props = {
  theme?: any,
};
export default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {
  return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;
};
// @flow
import type { IStyledComponent } from './types';
export default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean %checks {
  return (typeof target === 'string' && (process.env.NODE_ENV !== 'production' ? target.charAt(0) === target.charAt(0).toLowerCase() : true));
};
// @flow
import type { IStyledComponent } from './types';
import getComponentName from './getComponentName';
import isTag from './isTag';
export default function generateDisplayName(target: $PropertyType<IStyledComponent, 'target'>): string {
  return isTag(target) ? `styled.${target}` : `Styled(${getComponentName(target)})`;
};
// @flow
import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwStyledError from './utils/error';
import isFunction from './utils/isFunction';
export type Theme = { [key: string]: mixed };
export type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);
export type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};
export const ThemeContext: Context<Theme | void> = React.createContext();
export const ThemeConsumer = ThemeContext.Consumer;
function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwStyledError(14);
  }
  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);
    if (process.env.NODE_ENV !== 'production' && (mergedTheme === null || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')) {
      return throwStyledError(7);
    }
    return mergedTheme;
  }
  if (Array.isArray(theme) || typeof theme !== 'object') {
    return throwStyledError(8);
  }
  return outerTheme ? { ...outerTheme, ...theme } : theme;
}
// ** Provide a theme to an entire react component tree via context
export default function ThemeProvider(props: Props) {
  const outerTheme = useContext(ThemeContext);
  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [props.theme, outerTheme]);
  if (!props.children) {
    return null;
  }
  return <ThemeContext.Provider value={themeContext}>{props.children}</ThemeContext.Provider>;
};
// @flow
import React, { createElement, Component } from 'react';
import hoist from 'hoist-non-react-statics';
import merge from './utils/mixinDeep';
import determineTheme from './utils/determineTheme';
import { EMPTY_ARRAY, EMPTY_OBJECT } from './utils/empties';
import generateDisplayName from './utils/generateDisplayName';
import isFunction from './utils/isFunction';
import isTag from './utils/isTag';
import isStyledComponent from './utils/isStyledComponent';
import { ThemeConsumer } from './ThemeProvider';
import type { Theme } from './ThemeProvider';
import type { Attrs, RuleSet, Target } from './types';
// NOTE: no hooks available for react-native yet; if the user makes use of ThemeProvider or StyleSheetManager things will break.
// Validator defaults to true if not in HTML/DOM env
const validAttr = () => true;
class StyledNativeComponent extends Component<*, *> {
  root: ?Object;
  attrs = {};
  render() {
    return <ThemeConsumer> { (theme?: Theme) => {

```

```

const {
  $as: transientAsProp,
  as: renderAs,
  forwardedComponent,
  forwardedAs,
  forwardedRef,
  testID,
  style = [],
  ...props
} = this.props;
const {
  defaultProps,
  target,
  shouldForwardProp
} = forwardedComponent;
const elementToBeRendered =
this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;
const generatedStyles =
this.generateAndInjectStyles(
  determineTheme(this.props, theme, defaultProps) || EMPTY_OBJECT,
  this.props
);
const isTargetTag = isTag(elementToBeRendered);
const computedProps =
this.attrs !== props ? { ...props, ...this.attrs } : props;
const propFilterFn = shouldForwardProp || (isTargetTag
&& validAttr);
const propsForElement = {};
let key;
for (key in computedProps) {
  if (key[0] === '$' || key
=== 'as') continue;
  else if (key === 'forwardedAs') {
    propsForElement.as = props[key];
  }
  else if (!propFilterFn || propFilterFn(key, validAttr)) {
    // Don't pass through filtered tags through to
    native elements
    propsForElement[key] = computedProps[key];
  }
}
propsForElement.style =
typeof style === 'function' ? (state) => {
  return
[generatedStyles].concat(style(state))
} : [generatedStyles].concat(style);
propsForElement.testID =
testID || propsForElement.testID;
if (forwardedRef)
  propsForElement.ref =
forwardedRef;
if (forwardedAs)
  propsForElement.as =
forwardedAs;
return
createElement(elementToBeRendered, propsForElement);
}
</ThemeConsumer>
);
}
buildExecutionContext(theme: ?Object, props: Object, attrs: Attrs) {
  const context = { ...props, theme };
  if (!attrs.length)
    return context;
  this.attrs = {};
  attrs.forEach((attrDef => {
    let resolvedAttrDef =
attrDef;
    let attr;
    let key;
    if (isFunction(resolvedAttrDef)) {
      resolvedAttrDef =
resolvedAttrDef(context);
    }
    /* eslint-disable guard-for-in */
    for (key in resolvedAttrDef) {
      attr = resolvedAttrDef[key];
      this.attrs[key] = attr;
      context[key] = attr;
    }
    /* eslint-enable */
  }));
  return context;
}
generateAndInjectStyles(theme: any, props: any) {
  const { inlineStyle } =
props.forwardedComponent;
  const executionContext =
this.buildExecutionContext(
    theme,
    props,
    props.forwardedComponent.attrs
  );
  return inlineStyle.generateStyleObject(executionContext);
}
setNativeProps(nativeProps: Object) {
  if (this.root !== undefined) {
    // $FlowFixMe
    this.root.setNativeProps(nativeProps);
  }
  else if (process.env.NODE_ENV !== 'production') {
    // eslint-disable-next-line no-console
    console.warn(
      'setNativeProps was called on a Styled Component wrapping a stateless functional
component.'
    );
  }
}
export default (InlineStyle: Function) => {
  const
createStyledNativeComponent =
(target: Target, options: Object, rules: RuleSet) => {
    const {
      attrs =
EMPTY_ARRAY,
      displayName = generateDisplayName(target),
      ParentComponent =
StyledNativeComponent,
    } = options;
    const isClass = !isTag(target);
    const isTargetStyledComp =
isStyledComponent(target);
    // $FlowFixMe
    const WrappedStyledNativeComponent =
React.forwardRef(
      (props, ref) => (
        <ParentComponent
          {...props}
          forwardedComponent={
            WrappedStyledNativeComponent
          }
          forwardedRef={ref}
        />
      )
    );
    const
finalAttrs =
// $FlowFixMe
isTargetStyledComp && target.attrs
?
Array.prototype.concat(target.attrs,
attrs).filter(Boolean)
: attrs;
    // eslint-disable-next-line prefer-destructuring
    let shouldForwardProp =
options.shouldForwardProp;
    // $FlowFixMe
    if (isTargetStyledComp && target.shouldForwardProp) {
      if (shouldForwardProp) {
        // compose nested shouldForwardProp calls
        shouldForwardProp =
(prop, filterFn, elementToBeCreated) =>
// $FlowFixMe
target.shouldForwardProp(prop, filterFn,
elementToBeCreated) &&
options.shouldForwardProp(prop, filterFn, elementToBeCreated);
      }
      else {
        // eslint-disable-next-line prefer-destructuring
        shouldForwardProp = target.shouldForwardProp;
      }
    }
    /**
     * forwardRef creates a new interim component, which we'll take advantage of
     * instead of extending ParentComponent to create _another_ interim class
     */
    // $FlowFixMe
    WrappedStyledNativeComponent.attrs = finalAttrs;
    WrappedStyledNativeComponent.displayName

```

```

= displayName;\n\n // $FlowFixMe\n WrappedStyledNativeComponent.shouldForwardProp =
shouldForwardProp;\n\n // $FlowFixMe\n WrappedStyledNativeComponent.inlineStyle = new InlineStyle(\n
// $FlowFixMe\n isTargetStyledComp ? target.inlineStyle.rules.concat(rules) : rules\n );\n\n // $FlowFixMe\n
WrappedStyledNativeComponent.styledComponentId = 'StyledNativeComponent';\n // $FlowFixMe\n
WrappedStyledNativeComponent.target = isTargetStyledComp\n ? // $FlowFixMe\n target.target\n :
target;\n // $FlowFixMe\n WrappedStyledNativeComponent.withComponent = function withComponent(tag:
Target) {\n const { displayName: _, componentId: __, ...optionsToCopy } = options;\n const newOptions =
{\n ...optionsToCopy,\n attrs: finalAttrs,\n ParentComponent,\n };;\n\n return
createStyledNativeComponent(tag, newOptions, rules);\n };;\n\n // $FlowFixMe\n
Object.defineProperty(WrappedStyledNativeComponent,
'defaultProps', {\n get() {\n return this._foldedDefaultProps;\n },\n\n set(obj) {\n // $FlowFixMe\n
this._foldedDefaultProps = isTargetStyledComp ? merge({}, target.defaultProps, obj) : obj;\n },\n\n });\n\n
if (isClass) {\n hoist(WrappedStyledNativeComponent, (target: any), {\n // all SC-specific things should not
be hoisted\n attrs: true,\n displayName: true,\n shouldForwardProp: true,\n inlineStyle: true,\n
styledComponentId: true,\n target: true,\n withComponent: true,\n });;\n\n return
WrappedStyledNativeComponent;\n };;\n\n return createStyledNativeComponent;\n};\n\n", /* @flow\nimport type {
Interpolation } from './types';\n\nexport default (\n strings: Array<string>,\n interpolations:
Array<Interpolation>): Array<Interpolation> => {\n const result = [strings[0]];\n\n for (let i = 0, len =
interpolations.length; i < len;
i += 1) {\n result.push(interpolations[i], strings[i + 1]);\n }\n\n return result;\n};\n\n", /* @flow\nimport
interleave
from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport { EMPTY_ARRAY } from
'./utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from './utils/flatten';\nimport
type {
Interpolation, RuleSet, Styles } from './types';\n\n/**\n * Used when flattening object styles to determine if we
should\n * expand an array of styles.\n */\nconst addTag = arg => {\n if (Array.isArray(arg)) {\n // eslint-disable
next-line no-param-reassign\n arg.isCss = true;\n }\n\n return arg;\n};\n\nexport default function css(styles: Styles,
...interpolations: Array<Interpolation>): RuleSet {\n if (isFunction(styles) || isPlainObject(styles)) {\n //
$FlowFixMe\n return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n }\n\n if
(interpolations.length === 0 && styles.length === 1 && typeof styles[0]
=== 'string') {\n // $FlowFixMe\n return styles;\n }\n\n // $FlowFixMe\n return
addTag(flatten(interleave(styles, interpolations)));\n}\n\n", /* @flow\nimport { isValidElementType } from 'react-
is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport { EMPTY_OBJECT } from
'./utils/empties';\nimport type { Target } from './types';\n\nexport default function constructWithOptions(\n
componentConstructor: Function,\n tag: Target,\n options: Object = EMPTY_OBJECT)\n {\n if
(!isValidElementType(tag)) {\n return throwStyledError(1, String(tag));\n }\n\n /* This is callable directly as a
template function */\n // $FlowFixMe: Not typed to avoid destructuring arguments\n const templateFunction =
(...args) => componentConstructor(tag, options, css(...args));\n\n /* If config methods are called, wrap up a new
template function and merge options */\n templateFunction.withConfig = config =>\n
constructWithOptions(componentConstructor,
tag, { ...options, ...config });\n\n /* Modify/inject new props at runtime */\n templateFunction.attrs = attrs =>\n
constructWithOptions(componentConstructor, tag, {\n ...options,\n attrs: Array.prototype.concat(options.attrs,
attrs).filter(Boolean),\n });;\n\n return templateFunction;\n}\n\n", /* @flow\nimport React, { useContext, type
AbstractComponent } from 'react';\nimport hoistStatics from 'hoist-non-react-statics';\nimport { ThemeContext }
from './models/ThemeProvider';\nimport determineTheme from './utils/determineTheme';\nimport
getComponentName from './utils/getComponentName';\n\n// NOTE: this would be the correct signature:\n// export
default <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):
AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n//\n// but the old build system
tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n //
$FlowFixMe

```



```

This should be React.forwardRef<Config, Instance>\n const WithTheme = React.forwardRef((props, ref) => {\n
const theme = useContext(ThemeContext);\n // $FlowFixMe defaultProps isn't declared so it can be inferrable\n
const { defaultProps } = Component;\n const themeProp = determineTheme(props, theme, defaultProps);\n\n if
(process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n // eslint-disable-next-line no-
console\n console.warn(\n `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a
theme in defaultProps in component class \`${getComponentName(\n Component\n )}\`\n );\n }\n\n
return <Component { ...props } theme={themeProp} ref={ref} />.\n );\n\n hoistStatics(WithTheme,
Component);\n\n WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;\n\n return
WithTheme;\n};\n", "// @flow\nimport { useContext } from 'react';\nimport { ThemeContext } from
'../models/ThemeProvider';\n\nconst
useTheme = () => useContext(ThemeContext);\n\nexport default useTheme;\n", "// @flow\n\n/* eslint-disable
import/no-unresolved */\nimport _InlineStyle from '../models/InlineStyle';\nimport _StyledNativeComponent from
'../models/StyledNativeComponent';\nimport css from '../constructors/css';\nimport constructWithOptions from
'../constructors/constructWithOptions';\nimport ThemeProvider, { ThemeConsumer, ThemeContext } from
'../models/ThemeProvider';\nimport withTheme from '../hoc/withTheme';\nimport useTheme from
'../hooks/useTheme';\nimport isStyledComponent from '../utils/isStyledComponent';\nimport type { Target } from
'../types';\n\nconst reactNative = require('react-native');\n\nconst InlineStyle =
_InlineStyle(reactNative.StyleSheet);\nconst StyledNativeComponent =
_StyledNativeComponent(InlineStyle);\nconst styled = (tag: Target) =>
constructWithOptions(StyledNativeComponent, tag);\n\n/* React native lazy-requires each of these modules for
some reason, so let's\n *
assume it's for a good reason and not eagerly load them all */\nconst aliases = `ActivityIndicator
ActivityIndicatorIOS ART Button DatePickerIOS DrawerLayoutAndroid\n Image ImageBackground ImageEditor
ImageStore KeyboardAvoidingView ListView MapView Modal NavigatorIOS\n Picker PickerIOS
ProgressBarAndroid ProgressViewIOS ScrollView SegmentedControlIOS Slider\n SliderIOS SnapshotViewIOS
Switch RecyclerViewBackedScrollView RefreshControl SafeAreaView StatusBar\n SwipeableListView
SwitchAndroid SwitchIOS TabBarIOS Text TextInput ToastAndroid ToolbarAndroid\n Touchable
TouchableHighlight TouchableNativeFeedback TouchableOpacity TouchableWithoutFeedback\n View
ViewPagerAndroid WebView FlatList SectionList VirtualizedList Pressable`;\n\n/* Define a getter for each alias
which simply gets the reactNative component\n * and passes it to styled */\naliases.split(/\\s+\\/m).forEach(alias =>{\n
Object.defineProperty(styled, alias, {\n enumerable: true,\n configurable: false,\n get() {\n
return styled(reactNative[alias]);\n },\n })\n});\n\nexport { css, isStyledComponent, ThemeProvider,
ThemeConsumer, ThemeContext, withTheme, useTheme };
\nexport default
styled;\n}], "names": ["AD_REPLACER_R", "charsLength", "getAlphabeticChar", "code", "String", "fromCharCode", "g
enerateAlphabeticName", "name", "x", "Math", "abs", "replace", "SEED", "phash", "h", "i", "length", "charCodeAt", "hash"
, "str", "getComponentName", "target", "process", "env", "NODE_ENV", "displayName", "isFunction", "test", "isStateless
Function", "prototype", "isReactComponent", "toString", "Object", "call", "typeof", "isStyledComponent", "styledComp
onentId", "SC_ATTR", "REACT_APP_SC_ATTR", "SC_ATTR_ACTIVE", "SC_ATTR_VERSION", "SC_VERSIO
N", "__VERSION__", "SPLITTER", "IS_BROWSER", "window", "DISABLE_SPEEDY", "Boolean", "SC_DISABLE_
SPEEDY", "REACT_APP_SC_DISABLE_SPEEDY", "EMPTY_ARRAY", "freeze", "EMPTY_OBJECT", "ERRORS
", "errorMap", "format", "a", "b", "c", "len", "push", "forEach", "d", "throwStyledComponentsError", "interpolations", "Erro
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tions.js", "../../src/hoc/withTheme.js", "../../src/hooks/useTheme.js", "../../src/native/index.js"], "sourcesContent": ["/
@flow\n/* eslint-disable no-bitwise *\n\nconst AD_REPLACER_R = /(a)(d)/gi;\n\n/* This is the "capacity" of
our alphabet i.e. 2x26 for all letters plus their capitalised\n * counterparts *\n\nconst charsLength = 52;\n\n/* start at
75 for 'a' until 'z' (25) and then start at 65 for capitalised letters *\n\nconst getAlphabeticChar = (code: number): string
=>\n String.fromCharCode(code + (code > 25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to
base-52 *\n\nexport default function generateAlphabeticName(code: number): string {\n let name = "";\n let x;\n\n /*
get a char and divide
by alphabet-length *\n for (x = Math.abs(code); x > charsLength; x = (x / charsLength) | 0) {\n name =
getAlphabeticChar(x % charsLength) + name;\n }\n\n return (getAlphabeticChar(x % charsLength) +
name).replace(AD_REPLACER_R, '$1-$2');\n}\n\n", "/ @flow\n/* eslint-disable *\n\nexport const SEED =
5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we pretend that
we're still looping over\n// the same string\n\nexport const phash = (h: number, x: string): number => {\n let i =
x.length;\n\n while (i) {\n h = (h * 33) ^ x.charCodeAt(--i);\n }\n\n return h;\n};\n\n// This is a djb2 hashing
function\n\nexport const hash = (x: string): number => {\n return phash(SEED, x);\n};\n\n", "/ @flow\n/* eslint-disable
*\n\nimport generateAlphabeticName from './generateAlphabeticName';\n\nimport { hash } from './hash';\n\nexport
default (str: string): string => {\n return generateAlphabeticName(hash(str) >>> 0);\n};\n\n", "/ @flow\nimport type {
IStyledComponent } from './types';\n\nexport default function getComponentName(\n target:
$PropertyType<IStyledComponent, 'target'>): string {\n return (\n (process.env.NODE_ENV !== 'production' ?
typeof target === 'string' && target : false) ||\n // $FlowFixMe\n target.displayName ||\n // $FlowFixMe\n
target.name ||\n 'Component'\n );\n}\n\n", "/ @flow\nexport default function isFunction(test: any): boolean %checks
{\n return typeof test === 'function';\n}\n\n", "/ @flow\nexport default function isStatelessFunction(test: any):
boolean {\n return (\n typeof test === 'function'\n && !(\n test.prototype\n &&
test.prototype.isReactComponent\n )\n );\n}\n\n", "/ @flow\nimport { typeOf } from 'react-is';\n\nexport default (x:
any): boolean =>\n x !== null &&\n typeof x === 'object' &&\n (x.toString ? x.toString() :
Object.prototype.toString.call(x)) === '[object Object]' &&\n !typeOf(x);\n\n", "/ @flow\nexport default function
isStyledComponent(target:
any): boolean %checks {\n return target && typeOf target.styledComponentId === 'string';\n}\n\n", "/
@flow\n\ndeclare var SC_DISABLE_SPEEDY: ?boolean;\n\ndeclare var __VERSION__: string;\n\nexport const
SC_ATTR: string =\n (typeof process !== 'undefined' &&\n typeof process.env !== 'undefined' &&\n
(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR)) ||\n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\n\nexport const SC_ATTR_VERSION = 'data-styled-version';\n\nexport const
SC_VERSION = __VERSION__;\n\nexport const SPLITTER = '/*!sc*\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTML' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n typeof
SC_DISABLE_SPEEDY === 'boolean'\n ? SC_DISABLE_SPEEDY\n : typeof process !== 'undefined' &&
typeof process.env !== 'undefined'\n ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'
&&\n process.env.REACT_APP_SC_DISABLE_SPEEDY !== "\n ?

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process.env.REACT_APP_SC_DISABLE_SPEEDY
=== 'false' ? false : process.env.REACT_APP_SC_DISABLE_SPEEDY : typeof
process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== " ?
process.env.SC_DISABLE_SPEEDY === 'false' ? false : process.env.SC_DISABLE_SPEEDY :
process.env.NODE_ENV !== 'production' : false // Shared empty execution context when generating
static styles\nexport const STATIC_EXECUTION_CONTEXT = {};" @flow\nexport const EMPTY_ARRAY
= Object.freeze([]);\nexport const EMPTY_OBJECT = Object.freeze({});\n,"export default {"1": "Cannot create
styled-component for component: %s.\n\n","2": "Can't collect styles once you've consumed a
`ServerStyleSheet`'s styles! `ServerStyleSheet` is a one off instance for each server-side render cycle.\n\n- Are you
trying to reuse it across renders?\n- Are you accidentally calling collectStyles twice?\n\n","3": "Streaming SSR
is only supported in a Node.js environment;
Please do not try to call this method in the browser.\n\n","4": "The `StyleSheetManager` expects a valid target
or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n- Does this error occur on the
server and is the sheet falsy?\n\n","5": "The clone method cannot be used on the client!\n\n- Are you running in
a client-like environment on the server?\n- Are you trying to run SSR on the client?\n\n","6": "Trying to insert a
new style tag, but the given Node is unmounted!\n\n- Are you using a custom target that isn't mounted?\n- Does
your document not have a valid head element?\n- Have you accidentally removed a style tag
manually?\n\n","7": "ThemeProvider: Please return an object from your `theme` prop function,
e.g.\n\n`js\ntheme={() => ({})}\n\n`.\n\n","8": "ThemeProvider: Please make your `theme` prop an
object.\n\n","9": "Missing document `<head>`\n\n","10": "Cannot find a StyleSheet instance.
Usually this happens if there are multiple copies of styled-components loaded at once. Check out this issue for how
to troubleshoot and fix the common cases where this situation can happen: https://github.com/styled-
components/styled-components/issues/1941#issuecomment-417862021\n\n","11": "_ This error was replaced
with a dev-time warning, it will be deleted for v4 final. _ [createGlobalStyle] received children which will not be
rendered. Please use the component without passing children elements.\n\n","12": "It seems you are interpolating
a keyframe declaration (%s) into an untagged string. This was supported in styled-components v3, but is not longer
supported in v4 as keyframes are now injected on-demand. Please wrap your string in the css` helper which
ensures the styles are injected correctly. See https://www.styled-components.com/docs/api#css\n\n","13": "%s is
not a styled component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components
for more details.\n\n","14": "ThemeProvider: `theme` prop is required.\n\n","15": "A stylis plugin has
been supplied that is not named. We need a name for each plugin to be able to prevent styling collisions between
different stylis configurations within the same app. Before you pass your plugin to `<StyleSheetManager
stylisPlugins={[]}>`, please make sure each plugin is uniquely-named,
e.g.\n\n`js\nObject.defineProperty(importedPlugin, 'name', { value: 'some-unique-name'
});\n\n`.\n\n","16": "Reached the limit of how many styled components may be created at group %s.\n\nYou may
only create up to 1,073,741,824 components. If you're creating components dynamically,\n\nas for instance in your
render method then you may be running into this limitation.\n\n","17": "CSSStyleSheet could not be found on
HTMLStyleElement.\n\nHas styled-components' style tag been unmounted or altered by another script?";"/
@flow\nimport errorMap from './errors';\n\nconst ERRORS = process.env.NODE_ENV !== 'production' ?
errorMap : {};\n\n/**
 * super basic version of sprintf
 */\nfunction format(...args) {\n let a = args[0];\n const b =
[];\n\n for (let c = 1, len = args.length; c < len; c += 1) {\n b.push(args[c]);\n }\n\n b.forEach(d => {\n a =
a.replace(/%[a-z]/, d);\n });\n\n return a;\n\n}\n\n/**
 * Create an error file out of errors.md for development and a
simple web link to the full errors
 * in production mode.
 */\nexport default function
throwStyledComponentsError(\n code: string | number,\n ...interpolations: Array<any>)\n {\n if
(process.env.NODE_ENV === 'production') {\n throw new Error(\n `An error occurred. See
https://git.io/JUIaE#${code} for more information.$\n interpolations.length > 0 ? ` Args:
${interpolations.join(',')} : "\n }`);\n } else {\n throw new Error(format(ERRORS[code],

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...interpolations).trim());\n }\n}\n", "//
@flow\n/* eslint-disable no-use-before-define *\n\nimport type { GroupedTag, Tag } from './types';\nimport {
SPLITTER } from './constants';\nimport throwStyledError from './utils/error';\n\n/** Create a GroupedTag with an
underlying Tag implementation *\n\nexport const makeGroupedTag = (tag: Tag): GroupedTag => {\n return new
DefaultGroupedTag(tag);\n};\n\nconst BASE_SIZE = 1 << 9;\n\nclass DefaultGroupedTag implements
GroupedTag {\n groupSizes: Uint32Array;\n\n length: number;\n\n tag: Tag;\n\n constructor(tag: Tag) {\n
this.groupSizes = new Uint32Array(BASE_SIZE);\n this.length = BASE_SIZE;\n this.tag = tag;\n }\n\n
indexOfGroup(group: number): number {\n let index = 0;\n for (let i = 0; i < group; i++) {\n index +=
this.groupSizes[i];\n }\n\n return index;\n }\n\n insertRules(group: number, rules: string[]): void {\n if (group
>= this.groupSizes.length) {\n const oldBuffer = this.groupSizes;\n const oldSize = oldBuffer.length;\n\n
let newSize = oldSize;\n while (group >= newSize) {\n newSize <= 1;\n if (newSize < 0) {\n
throwStyledError(16, `${group}`);\n }\n }\n\n this.groupSizes = new Uint32Array(newSize);\n
this.groupSizes.set(oldBuffer);\n this.length = newSize;\n\n for (let i = oldSize; i < newSize; i++) {\n
this.groupSizes[i] = 0;\n }\n }\n\n let ruleIndex = this.indexOfGroup(group + 1);\n for (let i = 0, l =
rules.length; i < l; i++) {\n if (this.tag.insertRule(ruleIndex, rules[i])) {\n this.groupSizes[group]++;;\n
ruleIndex++;;\n }\n }\n\n clearGroup(group: number): void {\n if (group < this.length) {\n const
length = this.groupSizes[group];\n const startIndex = this.indexOfGroup(group);\n const endIndex =
startIndex + length;\n\n this.groupSizes[group] = 0;\n\n for (let i = startIndex; i < endIndex; i++) {\n
this.tag.deleteRule(startIndex);\n }\n\n }\n\n }\n\n getGroup(group: number): string {\n let css = "";\n if (group >= this.length || this.groupSizes[group]
=== 0) {\n return css;\n }\n\n const length = this.groupSizes[group];\n const startIndex =
this.indexOfGroup(group);\n const endIndex = startIndex + length;\n\n for (let i = startIndex; i < endIndex; i++)
{\n css += `${this.tag.getRule(i)}${SPLITTER}`;\n }\n\n return css;\n }\n}\n", "// @flow\n\nimport
throwStyledError from './utils/error';\n\nconst MAX_SMI = 1 << 31 - 1;\n\nlet groupIDRegister: Map<string,
number> = new Map();\nlet reverseRegister: Map<number, string> = new Map();\nlet nextFreeGroup = 1;\n\nexport
const resetGroupIds = () => {\n groupIDRegister = new Map();\n reverseRegister = new Map();\n nextFreeGroup
= 1;\n};\n\nexport const getGroupForId = (id: string): number => {\n if (groupIDRegister.has(id)) {\n return
(groupIDRegister.get(id): any);\n }\n\n while (reverseRegister.has(nextFreeGroup)) {\n nextFreeGroup++;;\n
}\n\n const group = nextFreeGroup++;\n\n if (\n process.env.NODE_ENV !== 'production' &&\n ((group | 0)
< 0 || group > MAX_SMI)\n ) {\n throwStyledError(16, `${group}`);\n }\n\n groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n return group;\n};\n\nexport const getIdForGroup = (group: number): void | string
=> {\n return reverseRegister.get(group);\n};\n\nexport const setGroupForId = (id: string, group: number) => {\n if
(group >= nextFreeGroup) {\n nextFreeGroup = group + 1;\n }\n\n groupIDRegister.set(id, group);\n
reverseRegister.set(group, id);\n};\n", "// @flow\n\nimport { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE,
SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport { getIdForGroup, setGroupForId } from
'./GroupIDAllocator';\nimport type { Sheet } from './types';\n\nconst SELECTOR =
`style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;\n\nconst MARKER_RE = new
RegExp(`^${SC_ATTR}\\\\\\\\.g(\\\\\\\\d+)(\\\\\\\\[id=](\\\\\\\\[w\\\\\\\\d-]+)\\\\\\\\\\\\\\\\.?!"([\\^"]*)`);\n\nexport
const outputSheet = (sheet: Sheet) => {\n const tag = sheet.getTag();\n const { length } = tag;\n\n let css = "";\n
for (let group = 0; group < length; group++) {\n const id = getIdForGroup(group);\n if (id === undefined)
continue;\n\n const names = sheet.names.get(id);\n const rules = tag.getGroup(group);\n if (!names || !rules ||
!names.size) continue;\n\n const selector = `${SC_ATTR}.g${group}[id=${id}]`;\n\n let content = "";\n if
(names !== undefined) {\n names.forEach(name => {\n if (name.length > 0) {\n content +=
`${name};`;\n }\n });\n }\n\n // NOTE: It's easier to collect rules and have the marker\n // after the
actual rules to simplify the rehydration\n css += `${rules}${selector}{content:"${content}"}`;\n\n }\n\n return css;\n};\n\nconst rehydrateNamesFromContent = (sheet: Sheet, id: string, content: string) => {\n const
names = content.split(',');\n let name;\n

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    for (let i = 0, l = names.length; i < l; i++) {\n  // eslint-disable-next-line\n  if ((name = names[i])) {\n
sheet.registerName(id, name);\n  }\n }\n};\n\nconst rehydrateSheetFromTag = (sheet: Sheet, style:
HTMLStyleElement) => {\n  const parts = (style.textContent || "").split(SPLITTER);\n  const rules: string[] = [];\n\n  for (let i = 0, l = parts.length; i < l; i++) {\n    const part = parts[i].trim();\n    if (!part) continue;\n\n    const marker =
part.match(MARKER_RE);\n\n    if (marker) {\n      const group = parseInt(marker[1], 10) | 0;\n      const id =
marker[2];\n\n      if (group !== 0) {\n        // Rehydrate componentId to group index mapping\n
setGroupForId(id, group);\n        // Rehydrate names and rules\n        // looks like: data-
styled.g11[id="idA"]{content:"nameA,"}\n        rehydrateNamesFromContent(sheet, id, marker[3]);\n
sheet.getTag().insertRules(group, rules);\n      }\n\n      rules.length = 0;\n    } else {\n      rules.push(part);\n
    }\n  }\n};\n\nexport const rehydrateSheet = (sheet: Sheet) => {\n  const nodes =
document.querySelectorAll(SELECTOR);\n\n  for (let i = 0, l = nodes.length; i < l; i++) {\n    const node =
((nodes[i]: any): HTMLStyleElement);\n    if (node && node.getAttribute(SC_ATTR) !== SC_ATTR_ACTIVE)\n
{\n      rehydrateSheetFromTag(sheet, node);\n\n      if (node.parentNode) {\n
node.parentNode.removeChild(node);\n      }\n    }\n  }\n};\n\n", // @flow\n\n/* eslint-disable camelcase, no-undef
*\n\ndeclare var __webpack_nonce__: string;\n\nconst getNonce = () => {\n  return typeof __webpack_nonce__
!== 'undefined' ? __webpack_nonce__ : null;\n};\n\nexport default getNonce;\n\n", // @flow\n\nimport { SC_ATTR,
SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';\nimport getNonce from
'./utils/nonce';\nimport throwError from './utils/error';\n\nconst ELEMENT_TYPE = 1; /*
Node.ELEMENT_TYPE *\n\n/** Find last style element if any inside target *\n\nconst findLastStyleTag
= (target: HTMLStyleElement): void | HTMLStyleElement => {\n  const { childNodes } = target;\n\n  for (let i =
childNodes.length; i >= 0; i--) {\n    const child = ((childNodes[i]: any): ?HTMLStyleElement);\n    if (child &&
child.nodeType === ELEMENT_TYPE && child.hasAttribute(SC_ATTR)) {\n      return ((child: any):
HTMLStyleElement);\n    }\n  }\n\n  return undefined;\n};\n\n/** Create a style element inside `target` or <head>
after the last *\n\nexport const makeStyleTag = (target?: HTMLStyleElement): HTMLStyleElement => {\n  const head =
((document.head: any): HTMLStyleElement);\n  const parent = target || head;\n  const style =
document.createElement('style');\n  const prevStyle = findLastStyleTag(parent);\n  const nextSibling = prevStyle
!== undefined ? prevStyle.nextSibling : null;\n  style.setAttribute(SC_ATTR, SC_ATTR_ACTIVE);\n  style.setAttribute(SC_ATTR_VERSION, SC_VERSION);\n\n  const nonce = getNonce();\n\n  if (nonce)\n    style.setAttribute('nonce', nonce);\n\n  parent.insertBefore(style,\n
nextSibling);\n\n  return style;\n};\n\n/** Get the CSSStyleSheet instance for a given style element *\n\nexport const
getSheet = (tag: HTMLStyleElement): CSSStyleSheet => {\n  if (tag.sheet) {\n    return ((tag.sheet: any):
CSSStyleSheet);\n  }\n\n  // Avoid Firefox quirk where the style element might not have a sheet property\n  const {
styleSheets } = document;\n  for (let i = 0, l = styleSheets.length; i < l; i++) {\n    const sheet = styleSheets[i];\n    if
(sheet.ownerNode === tag) {\n      return ((sheet: any): CSSStyleSheet);\n    }\n  }\n\n  throwStyledError(17);\n
return (undefined: any);\n};\n\n", // @flow\n\n/* eslint-disable no-use-before-define *\n\nimport { makeStyleTag,
getSheet } from './dom';\nimport type { SheetOptions, Tag } from './types';\n\n/** Create a CSSStyleSheet-like tag
depending on the environment *\n\nexport const makeTag = ({ isServer, useCSSOMInjection, target }:\nSheetOptions): Tag => {\n  if (isServer) {\n    return new VirtualTag(target);\n  } else\n  if (useCSSOMInjection) {\n    return new CSSOMTag(target);\n  } else {\n    return new TextTag(target);\n  }\n};\n\nexport class CSSOMTag implements Tag {\n  element: HTMLStyleElement;\n\n  sheet:
CSSStyleSheet;\n\n  length: number;\n\n  constructor(target?: HTMLStyleElement) {\n    const element = (this.element =
makeStyleTag(target));\n\n    // Avoid Edge bug where empty style elements don't create sheets\n
element.appendChild(document.createTextNode("")); \n\n    this.sheet = getSheet(element);\n    this.length = 0;\n
  }\n\n  insertRule(index: number, rule: string): boolean {\n    try {\n      this.sheet.insertRule(rule, index);\n
this.length++;\n      return true;\n    } catch (_error) {\n      return false;\n    }\n  }\n\n  deleteRule(index: number):
void {\n    this.sheet.deleteRule(index);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    const rule =
this.sheet.cssRules[index];\n    // Avoid IE11 quirk where cssText is inaccessible on some invalid rules\n

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    if (rule !== undefined && typeof rule.cssText === 'string') {\n    return rule.cssText;\n    } else {\n    return "";\n    }\n  }\n}\n\n/** A Tag that emulates the CSSStyleSheet API but uses text nodes */\nexport class TextTag\nimplements Tag {\n  element: HTMLStyleElement;\n\n  nodes: NodeList<Node>;\n\n  length: number;\n\n  constructor(target?: HTMLElement) {\n    const element = (this.element = makeStyleTag(target));\n    this.nodes =\n      element.childNodes;\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <=\n      this.length && index >= 0) {\n      const node = document.createTextNode(rule);\n      const refNode =\n        this.nodes[index];\n      this.element.insertBefore(node, refNode || null);\n      this.length++;\n      return true;\n    }\n    else {\n      return false;\n    }\n  }\n\n  deleteRule(index: number): void {\n    this.element.removeChild(this.nodes[index]);\n    this.length--;\n  }\n\n  getRule(index: number): string {\n    if\n      (index\n        < this.length) {\n      return this.nodes[index].textContent;\n    } else {\n      return "";\n    }\n  }\n}\n\n/** A\n  completely virtual (server-side) Tag that doesn't manipulate the DOM */\nexport class VirtualTag implements Tag\n{\n  rules: string[];\n\n  length: number;\n\n  constructor(_target?: HTMLElement) {\n    this.rules = [];\n    this.length = 0;\n  }\n\n  insertRule(index: number, rule: string): boolean {\n    if (index <= this.length) {\n      this.rules.splice(index, 0, rule);\n      this.length++;\n      return true;\n    } else {\n      return false;\n    }\n  }\n\n  deleteRule(index: number): void {\n    this.rules.splice(index, 1);\n    this.length--;\n  }\n\n  getRule(index: number):\n  string {\n    if (index < this.length) {\n      return this.rules[index];\n    } else {\n      return "";\n    }\n  }\n}\n\n"/\n@flow\nimport { DISABLE_SPEEDY, IS_BROWSER } from './constants';\nimport { EMPTY_OBJECT } from\n  './utils/empties';\nimport { makeGroupedTag } from './GroupedTag';\nimport\n  { getGroupForId } from './GroupIDAllocator';\nimport { outputSheet, rehydrateSheet } from\n  './Rehydration';\nimport { makeTag } from './Tag';\nimport type { GroupedTag, Sheet, SheetOptions } from\n  './types';\n\nlet SHOULD_REHYDRATE = IS_BROWSER;\n\ntype SheetConstructorArgs = {\n  isServer?:\n  boolean,\n  useCSSOMInjection?: boolean,\n  target?: HTMLElement,\n};\n\ntype GlobalStylesAllocationMap = {\n  [key: string]: number\n};\n\ntype NamesAllocationMap = Map<string, Set<string>>;\n\nconst defaultOptions:\n  SheetOptions = {\n  isServer: !IS_BROWSER,\n  useCSSOMInjection: !DISABLE_SPEEDY,\n};\n\n/** Contains\n  the main stylesheet logic for stringification and caching */\nexport default class StyleSheet implements Sheet {\n  gs: GlobalStylesAllocationMap;\n\n  names: NamesAllocationMap;\n\n  options: SheetOptions;\n\n  server:\n  boolean;\n\n  tag: void | GroupedTag;\n\n  /** Register a group ID to give it an index */\n  static registerId(id:\n  string): number {\n    return getGroupForId(id);\n  }\n\n  constructor(\n    options: SheetConstructorArgs = EMPTY_OBJECT,\n    globalStyles?:\n    GlobalStylesAllocationMap = {},\n    names?: NamesAllocationMap\n  ) {\n    this.options = {\n      ...defaultOptions,\n      ...options,\n    };\n    this.gs = globalStyles;\n    this.names = new Map(names);\n    this.server = !options.isServer;\n\n    // We rehydrate only once and use the sheet that is created first\n    if\n      (!this.server && IS_BROWSER && SHOULD_REHYDRATE) {\n      SHOULD_REHYDRATE = false;\n      rehydrateSheet(this);\n    }\n  }\n\n  reconstructWithOptions(options: SheetConstructorArgs, withNames?: boolean =\n  true) {\n    return new StyleSheet(\n      { ...this.options, ...options },\n      this.gs,\n      (withNames && this.names) ||\n      undefined\n    );\n  }\n\n  allocateGSInstance(id: string) {\n    return (this.gs[id] = (this.gs[id] || 0) + 1);\n  }\n\n  /**\n  Lazily initialises a GroupedTag for when it's actually needed */\n  getTag(): GroupedTag {\n    return this.tag\n      || (this.tag = makeGroupedTag(makeTag(this.options)));\n  }\n\n  /** Check whether a name is known for caching\n  */\n  hasNameForId(id: string, name: string): boolean {\n    return this.names.has(id) && (this.names.get(id):\n      any).has(name);\n  }\n\n  /** Mark a group's name as known for caching */\n  registerName(id: string, name: string)\n  {\n    getGroupForId(id);\n\n    if (!this.names.has(id)) {\n      const groupNames = new Set();\n      groupNames.add(name);\n      this.names.set(id, groupNames);\n    } else {\n      (this.names.get(id):\n        any).add(name);\n    }\n  }\n\n  /** Insert new rules which also marks the name as known */\n  insertRules(id: string,\n  name: string, rules: string[]) {\n    this.registerName(id, name);\n    this.getTag().insertRules(getGroupForId(id),\n      rules);\n  }\n\n  /** Clears all cached names for a given group ID */\n  clearNames(id: string) {\n    if\n      (this.names.has(id)) {\n      (this.names.get(id): any).clear();\n    }\n  }\n\n  /** Clears all rules for a given

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group ID *\n clearRules(id: string) {\n  this.getTag().clearGroup(getGroupForId(id));\n  this.clearNames(id);\n }\n\n /** Clears the entire tag which deletes all rules but not its names *\n clearTag() {\n  // NOTE: This does not\n  clear the names, since it's only used during SSR\n  // so that we can continuously output only new rules\n  this.tag\n  = undefined;\n }\n\n /** Outputs the current sheet as a CSS string with markers for SSR *\n toString(): string {\n  return outputSheet(this);\n }\n\n", /**\n * MIT License\n *\n * Copyright (c) 2016 Sultan Tarimo\n *\n * Permission is hereby granted, free of charge, to any person obtaining a copy of\n * this software and associated documentation files (the "Software"),\n * to deal in the Software without restriction, including without limitation\n * the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n * sell copies of the Software and to permit persons to whom the Software is furnished to do so,\n * subject to the following conditions:\n *\n * The above copyright notice and this permission notice shall be included\n * in all\n * copies or substantial portions of the Software.\n *\n * THE SOFTWARE IS PROVIDED "AS IS",\n * WITHOUT WARRANTY OF ANY KIND, EXPRESS\n * OR IMPLIED INCLUDING BUT NOT LIMITED TO\n * THE WARRANTIES OF MERCHANTABILITY,\n * FITNESS FOR A PARTICULAR PURPOSE AND\n * NONINFRINGEMENT. IN NO EVENT SHALL THE\n * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE\n * FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,\n * WHETHER IN AN ACTION OF CONTRACT,\n * TORT OR OTHERWISE, ARISING FROM, OUT OF OR\n * IN CONNECTION WITH THE SOFTWARE OR\n * THE USE OR OTHER DEALINGS IN THE SOFTWARE.\n *\n*/ eslint-disable *\n\nexport default\nfunction(insertRule) {\n  const delimiter = '/*';\n  const needle = `${delimiter}`;\n  function toSheet(block) {\n    if (block) {\n      try {\n        insertRule(`${block}`);\n      } catch (e) {} \n    }\n    return function ruleSheet(\n      context,\n      content,\n      selectors,\n      parents,\n      line,\n      column,\n      length,\n      ns,\n      depth,\n      at\n    ) {\n      switch (context) {\n        // property\n        case 1:\n          // @import\n          if (depth === 0 && content.charCodeAt(0) === 64) return\n          insertRule(`${content};`), "\n          break;\n          // selector\n          case 2:\n            if (ns === 0) return content +\n            delimiter;\n            break;\n            // at-rule\n          case 3:\n            switch (ns) {\n              // @font-face, @page\n              case\n              102:\n                case 112:\n                  return insertRule(selectors[0] + content), "\n              default:\n                return content +\n                (at === 0 ? delimiter : ");\n            }\n          case -2:\n            content.split(needle).forEach(toSheet);\n          }\n        }\n    }, "\nimport Stylis from '@emotion/stylis';\nimport { type Stringifier } from '../types';\nimport {\n  EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwError from './error';\nimport { phash,\n  SEED } from './hash';\nimport insertRulePlugin from\n  './stylisPluginInsertRule';\n\nconst COMMENT_REGEX = /^\\s*\\/\\/.*$/gm;\nconst\n  COMPLEX_SELECTOR_PREFIX = [':', '[', '.', '#'];\n  type StylisInstanceConstructorArgs = {\n    options?:\n    Object,\n    plugins?: Array<Function>,\n  };\n  export default function createStylisInstance({\n    options =\n    EMPTY_OBJECT,\n    plugins = EMPTY_ARRAY,\n  }: StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n    const stylis = new Stylis(options);\n    // Wrap `insertRulePlugin` to build a list of rules,\n    // and then make our own\n    plugin to return the rules. This\n    // makes it easier to hook into the existing SSR architecture\n    let parsingRules =\n    [];\n    // eslint-disable-next-line consistent-return\n    const returnRulesPlugin = context => {\n      if (context === -2)\n        {\n          const parsedRules = parsingRules;\n          parsingRules = [];\n          return parsedRules;\n        }\n    }; \n    const\n    parseRulesPlugin = insertRulePlugin(rule => {\n      parsingRules.push(rule);\n    }); \n    let _componentId: string;\n    let\n    _selector:\n    string;\n    let _selectorRegExp: RegExp;\n    let _consecutiveSelfRefRegExp: RegExp;\n    const\n    selfReferenceReplacer = (match, offset, string) => {\n      if (\n        // do not replace the first occurrence if it is\n        complex (has a modifier)\n        (offset === 0 ? COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length])\n        === -1 : true) &&\n        // no consecutive self refs (.b.b); that is a precedence boost and treated differently\n        !string.match(_consecutiveSelfRefRegExp)\n      ) {\n        return `.${_componentId}`;\n      }\n      return match;\n    };\n    /**\n     * When writing a style like\n     * & + & {\n     *   color: red;\n     * }\n     * The second\n     * ampersand should be a reference to the static component class. stylis\n     * has no knowledge of static class so we\n     * have to intelligently replace the base selector.\n     *\n     * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <-\n     * more info about the context phase values\n     * \"2\" means this plugin is taking effect at the

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very end after all other processing is complete\n
*/\n
const selfReferenceReplacementPlugin = (context, _,
selectors) => {\n
  if (context === 2 && selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n
    //
    eslint-disable-next-line no-param-reassign\n
    selectors[0] = selectors[0].replace(_selectorRegex,
selfReferenceReplacer);\n
  }\n
};\n\n
stylis.use([...plugins, selfReferenceReplacementPlugin, parseRulesPlugin,
returnRulesPlugin]);\n\n
function stringifyRules(css, selector, prefix, componentId = '&'): Stringifier {\n
  const flatCSS = css.replace(COMMENT_REGEX, "");\n
  const cssStr = selector && prefix ? `${prefix} ${selector} {
${flatCSS} }` : flatCSS;\n
  // stylis has no concept of state to be passed to plugins\n
  // but since JS is single-
threaded, we can rely on that to ensure\n
  // these properties stay in sync with the current stylis run\n
  _componentId = componentId;\n
  _selector = selector;\n
  _selectorRegex = new RegExp(`\\|\\|\\|\\|${_selector}\\|\\|\\|\\|b`,
'g');\n
  _consecutiveSelfRefRegExp = new RegExp(`\\|\\|\\|\\|${_selector}\\|\\|\\|\\|b){2,}`);\n\n
  return stylis(prefix ||
!selector ? " : selector, cssStr);\n
}\n\n
stringifyRules.hash = plugins.length\n
? plugins\n
.reduce((acc,
plugin) => {\n
  if (!plugin.name) {\n
    throwStyledError(15);\n
  }\n\n
  return phash(acc,
plugin.name);\n
}, SEED)\n
.toString()\n
: "";\n\n
return stringifyRules;\n
}\n\n
"}\n\n
@flow\n\n
import React, {
type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';\n\n
import shallowequal from
'shallowequal';\n\n
import StyleSheet from './sheet';\n\n
import type { Stringifier } from './types';\n\n
import
createStylisInstance from './utils/stylis';\n\n
type Props = {\n
  children?: Node,\n
  disableCSSOMInjection?:
boolean,\n
  disableVendorPrefixes?: boolean,\n
  sheet?: StyleSheet,\n
  stylisPlugins?: Array<Function>,\n
  target?:
HTMLElement,\n
};\n\n
export const StyleSheetContext: Context<StyleSheet
| void> = React.createContext();\n\n
export const StyleSheetConsumer = StyleSheetContext.Consumer;\n\n
export const
StylisContext: Context<Stringifier | void> = React.createContext();\n\n
export const StylisConsumer =
StylisContext.Consumer;\n\n
export const masterSheet: StyleSheet = new StyleSheet();\n\n
export const masterStylis:
Stringifier = createStylisInstance();\n\n
export function useStyleSheet(): StyleSheet {\n
  return
useContext(StyleSheetContext) || masterSheet;\n
}\n\n
export function useStylis(): Stringifier {\n
  return
useContext(StylisContext) || masterStylis;\n
}\n\n
export default function StyleSheetManager(props: Props) {\n
  const
[plugins, setPlugins] = useState(props.stylisPlugins);\n
  const contextStyleSheet = useStyleSheet();\n
  const
styleSheet = useMemo(() => {\n
    let sheet = contextStyleSheet;\n\n
    if (props.sheet) {\n
      // eslint-disable-next-
line prefer-destructuring\n
      sheet = props.sheet;\n
    } else if (props.target) {\n
      sheet =
sheet.reconstructWithOptions({
target: props.target }, false);\n
    }\n\n
    if (props.disableCSSOMInjection) {\n
      sheet =
sheet.reconstructWithOptions({ useCSSOMInjection: false });\n
    }\n\n
    return sheet;\n
  },
[props.disableCSSOMInjection, props.sheet, props.target]);\n\n
  const stylis = useMemo(\n
    () =>\n
    createStylisInstance({\n
      options: { prefix: !props.disableVendorPrefixes },\n
      plugins,\n
    }),\n
  [props.disableVendorPrefixes, plugins]);\n\n
  useEffect(() => {\n
    if (!shallowequal(plugins,
props.stylisPlugins)) setPlugins(props.stylisPlugins);\n
  }, [props.stylisPlugins]);\n\n
  return (\n
<StyleSheetContext.Provider value={styleSheet}>\n
  <StylisContext.Provider value={stylis}>\n
{process.env.NODE_ENV !== 'production'\n
? React.Children.only(props.children)\n
: props.children}\n
</StylisContext.Provider>\n
</StyleSheetContext.Provider>\n
);\n\n
"}\n\n
@flow\n\n
import StyleSheet from
'./sheet';\n\n
import { type Stringifier
} from './types';\n\n
import throwStyledError from './utils/error';\n\n
import { masterStylis } from
'./StyleSheetManager';\n\n
export default class Keyframes {\n
  id: string;\n\n
  name: string;\n\n
  rules: string;\n\n
  constructor(name: string, rules: string) {\n
    this.name = name;\n
    this.id = `sc-keyframes-${name}`;\n
    this.rules
= rules;\n
  }\n\n
  inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {\n
    const
resolvedName = this.name + stylisInstance.hash;\n\n
    if (!styleSheet.hasNameForId(this.id, resolvedName)) {\n
      styleSheet.insertRules(\n
this.id,\n
resolvedName,\n
stylisInstance(this.rules, resolvedName,
'@keyframes')\n
);\n
  }\n\n
  toString = () => {\n
    return throwStyledError(12, String(this.name));\n
  };\n\n
  getName(stylisInstance: Stringifier = masterStylis) {\n
    return this.name + stylisInstance.hash;\n
  }\n\n
"}\n\n
@flow\n\n
/**\n
 * inlined version of\n
 *
https://github.com/facebook/fbjs/blob/master/packages/fbjs/src/core/hyphenateStyleName.js\n

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*^/n\nconst uppercaseCheck = /([A-Z])/; \nconst uppercasePattern = /([A-Z])/g; \nconst msPattern = /^ms-;/; \nconst
prefixAndLowerCase = (char: string): string => `-${char.toLowerCase()}`; \n\n/** \n * Hyphenates a camelcased
CSS property name, for example: \n * > hyphenateStyleName('backgroundColor') \n * < `background-
color` \n * > hyphenateStyleName('MozTransition') \n * < `"-moz-transition` \n * >
hyphenateStyleName('msTransition') \n * < `"-ms-transition` \n * \n * As Modernizr suggests
(http://modernizr.com/docs/#prefixed), an `ms` prefix \n * is converted to `-ms-`. \n * \n * @param {string} string \n *
@return {string} \n */ \nexport default function hyphenateStyleName(string: string): string { \n return
uppercaseCheck.test(string) \n ? string \n .replace(uppercasePattern, prefixAndLowerCase) \n .replace(msPattern,
'-ms-') \n : string; \n } \n", "// @flow \nimport unitless from '@emotion/unitless'; \n\n// Taken from
https://github.com/facebook/react/blob/b87aabdf1b7461e7331abb3601d9e6bb27544bc/packages/react-
dom/src/shared/dangerousStyleValue.js \nexport
default function addUnitIfNeeded(name: string, value: any): any { \n // https://github.com/amilajack/eslint-plugin-
flowtype-errors/issues/133 \n // $FlowFixMe \n if (value === null || typeof value === 'boolean' || value === '') { \n
return ""; \n } \n if (typeof value === 'number' && value !== 0 && !(name in unitless) && !name.startsWith('--')) { \n
return `${value}px`; \n // Presumes implicit 'px' suffix for unitless numbers except for CSS variables \n } \n \n
return String(value).trim(); \n } \n", "// @flow \nimport { isElement } from 'react-is'; \nimport componentName from
'./getComponentName'; \nimport isFunction from './isFunction'; \nimport isStatelessFunction from
'./isStatelessFunction'; \nimport isPlainObject from './isPlainObject'; \nimport isStyledComponent from
'./isStyledComponent'; \nimport Keyframes from './models/Keyframes'; \nimport hyphenate from
'./hyphenateStyleName'; \nimport addUnitIfNeeded from './addUnitIfNeeded'; \nimport { type Stringifier } from
'./types'; \n\n/** \n * It's falsish not falsy because 0 is allowed. \n */ \nconst isFalsish = chunk => chunk ===
undefined || chunk === null || chunk === false || chunk === ""; \n\nexport const objToCssArray = (obj: Object,
prevKey?: string): Array<string | Function> => { \n const rules = []; \n \n for (const key in obj) { \n if
(!obj.hasOwnProperty(key) || isFalsish(obj[key])) continue; \n \n if ((Array.isArray(obj[key]) && obj[key].isCss) ||
isFunction(obj[key])) { \n rules.push(`${hyphenate(key)}:`, obj[key], `;`); \n } else if (isPlainObject(obj[key])) { \n
rules.push(...objToCssArray(obj[key], key)); \n } else { \n rules.push(`${hyphenate(key)}:
${addUnitIfNeeded(key, obj[key])};`); \n } \n } \n \n return prevKey ? [`${prevKey} {`, ...rules, `}`] :
rules; \n } \n\nexport default function flatten(\n chunk: any, \n executionContext: ?Object, \n styleSheet: ?Object, \n
stylisInstance: ?Stringifier): any { \n if (Array.isArray(chunk)) { \n const ruleSet = []; \n \n for (let i = 0, len =
chunk.length, result; i < len; i += 1) { \n result = flatten(chunk[i], executionContext, styleSheet,
stylisInstance); \n \n if (result === "") continue; \n else if (Array.isArray(result)) ruleSet.push(...result); \n else
ruleSet.push(result); \n } \n \n return ruleSet; \n } \n \n if (isFalsish(chunk)) { \n return ""; \n } \n \n /* Handle other
components */ \n if (isStyledComponent(chunk)) { \n return `.${chunk.styledComponentId}`; \n } \n \n /* Either
execute or defer the function */ \n if (isFunction(chunk)) { \n if (isStatelessFunction(chunk) && executionContext) { \n
const result = chunk(executionContext); \n \n if (process.env.NODE_ENV !== 'production' &&
isElement(result)) { \n // eslint-disable-next-line no-console \n console.warn(\n
`${getComponentName(\n chunk \n )} is not a styled
component and cannot be referred to via component selector. See https://www.styled-
components.com/docs/advanced#referring-to-other-components for more details. \n \n ); \n } \n \n return
flatten(result, executionContext, styleSheet, stylisInstance); \n } else return chunk; \n } \n \n if (chunk instanceof
Keyframes) { \n if (styleSheet) { \n chunk.inject(styleSheet, stylisInstance); \n return
chunk.getName(stylisInstance); \n } else return chunk; \n } \n \n /* Handle objects */ \n return isPlainObject(chunk)
? objToCssArray(chunk) : chunk.toString(); \n } \n", "// @flow \nconst printed = {}; \n\nexport default function
warnOnce(message) { \n if (printed[message]) return; \n printed[message] = true; \n \n if (typeof console !==
'undefined' && console.warn) console.warn(message); \n } \n", "// @flow \nconst SINGLE_QUOTE =
'\'' \n .charCodeAt(0); \nconst DOUBLE_QUOTE = '"' \n .charCodeAt(0); \nconst BACKSLASH =
'\\' \n .charCodeAt(0); \nconst SLASH = '/' \n .charCodeAt(0); \nconst NEWLINE =
'\n' \n .charCodeAt(0);

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'\n'.charCodeAt(0);\nconst SPACE = ' '.charCodeAt(0);\nconst FEED = '\f'.charCodeAt(0);\nconst TAB =
'\t'.charCodeAt(0);\nconst CR = '\r'.charCodeAt(0);\nconst OPEN_SQUARE = '['.charCodeAt(0);\nconst
CLOSE_SQUARE = ']'.charCodeAt(0);\nconst OPEN_PARENTHESES = '('.charCodeAt(0);\nconst
CLOSE_PARENTHESES = ')'.charCodeAt(0);\nconst OPEN_CURLY = '{'.charCodeAt(0);\nconst
CLOSE_CURLY = '}'.charCodeAt(0);\nconst SEMICOLON = ';'.charCodeAt(0);\nconst ASTERISK =
'*'.charCodeAt(0);\nconst COLON = ':'.charCodeAt(0);\nconst AT = '@'.charCodeAt(0);\n\nconst RE_AT_END = /[
\\n\\t\\r\\f\\{\\(\\)\\'\\|\\;\\/\\[\\]#]/g;\nconst RE_WORD_END = /[ \\n\\t\\r\\f\\(\\)\\{\\}\\;:@!'"\\\\\\\\\\]#[#]\\\\\\(?!=\\*)/g;\nconst
RE_BAD_BRACKET = /.[\\\\\\\\\\|\\(\\'\\n]/;\n\nexport default function tokenize(input, options = {}) {\n  const tokens
= [];\n  const css = input.css.valueOf();\n  const ignore = options.ignoreErrors;\n  let code,\n  next,\n  quote,\n  lines,\n  last,\n  content,\n  escape,\n  nextLine,\n  nextOffset,\n  escaped,\n  escapePos,\n  prev,\n  n;\n  const length = css.length;\n  let offset = -1;\n  let line
= 1;\n  let pos = 0;\n  function unclosed(what) {\n    throw input.error(`Unclosed ${what}`, line, pos - offset);\n  }\n  while (pos < length) {\n    code = css.charCodeAt(pos);\n    if (code === NEWLINE || code === FEED ||
(code === CR && css.charCodeAt(pos + 1) !== NEWLINE)) {\n      offset = pos;\n      line += 1;\n    }\n    switch
(code) {\n      case NEWLINE:\n      case SPACE:\n      case TAB:\n      case CR:\n      case FEED:\n        next =
pos;\n        do {\n          next += 1;\n          code = css.charCodeAt(next);\n          if (code === NEWLINE) {\n
offset = next;\n            line += 1;\n          }\n        } while (\n          code === SPACE ||\n          code === NEWLINE
||\n          code === TAB ||\n          code === CR ||\n          code === FEED\n        );\n        tokens.push(['space',
css.slice(pos, next)]);\n        pos = next - 1;\n        break;\n      case OPEN_SQUARE:\n        tokens.push(['[', '[', line, pos - offset]);\n
break;\n      case CLOSE_SQUARE:\n        tokens.push([']', ']', line, pos - offset]);\n        break;\n      case
OPEN_CURLY:\n        tokens.push(['{', '{', line, pos - offset]);\n        break;\n      case CLOSE_CURLY:\n
tokens.push(['}', '}', line, pos - offset]);\n        break;\n      case COLON:\n        tokens.push([':', ':', line, pos -
offset]);\n        break;\n      case SEMICOLON:\n        tokens.push([';', ';', line, pos - offset]);\n        break;\n      case OPEN_PARENTHESES:\n        prev = tokens.length ? tokens[tokens.length - 1][1] : '';\n        n =
css.charCodeAt(pos + 1);\n        if (\n          prev === 'url' &&\n          n !== SINGLE_QUOTE &&\n          n !==
DOUBLE_QUOTE &&\n          n !== SPACE &&\n          n !== NEWLINE &&\n          n !== TAB &&\n          n
!== FEED &&\n          n !== CR\n        )\n        {\n          next = pos;\n          do {\n            escaped = false;\n            next = css.indexOf('(', next + 1);\n            if
(next === -1) {\n              if (ignore) {\n                next = pos;\n                break;\n              } else {\n
unclosed('bracket');\n                }\n            }\n            escapePos = next;\n            while (css.charCodeAt(escapePos - 1)
=== BACKSLASH) {\n              escapePos -= 1;\n              escaped = !escaped;\n            }\n          } while
(escaped);\n          tokens.push([\n            'brackets',\n            css.slice(pos, next + 1),\n            line,\n            pos -
offset,\n            line,\n            next - offset,\n          ]);\n          pos = next;\n        } else {\n          next = css.indexOf('(',
pos + 1);\n          content = css.slice(pos, next + 1);\n          if (next === -1 || RE_BAD_BRACKET.test(content))\n            {\n              tokens.push(['(', '(', line, pos - offset]);\n            }\n          } else {\n            tokens.push(['brackets', content, line, pos - offset, line, next - offset]);\n            pos = next;\n          }\n        }\n        break;\n      case CLOSE_PARENTHESES:\n        tokens.push([')', ')', line, pos - offset]);\n
break;\n      case SINGLE_QUOTE:\n      case DOUBLE_QUOTE:\n        quote = code === SINGLE_QUOTE ?
'\'' : '\"';\n        next = pos;\n        do {\n          escaped = false;\n          next = css.indexOf(quote, next + 1);\n          if
(next === -1) {\n            if (ignore) {\n              next = pos + 1;\n              break;\n            } else {\n
unclosed('quote');\n              }\n            }\n            escapePos = next;\n            while (css.charCodeAt(escapePos - 1) ===
BACKSLASH) {\n              escapePos -= 1;\n              escaped = !escaped;\n            }\n          } while (escaped);\n          content = css.slice(pos, next + 1);\n          lines = content.split('\\n');\n          last = lines.length - 1;\n          if (last > 0) {\n            nextLine = line + last;\n            nextOffset = next - lines[last].length;\n          } else {\n
nextLine = line;\n            nextOffset = offset;\n          }\n          tokens.push([\n            'string',\n            css.slice(pos, next
+ 1),\n            line,\n            pos - offset,\n            nextLine,\n            next - nextOffset,\n          ]);\n          offset =
nextOffset;\n          line = nextLine;\n          pos = next;\n          break;\n      case AT:\n        RE_AT_END.lastIndex =

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pos + 1;\n    RE_AT_END.test(css);\n    if (RE_AT_END.lastIndex === 0) {\n        next = css.length - 1;\n    } else {\n        next = RE_AT_END.lastIndex - 2;\n    }\n    tokens.push(['at-word', css.slice(pos, next + 1),\nline, pos - offset, line, next - offset]);\n    pos = next;\n    break;\n\n    case BACKSLASH:\n        next = pos;\n        escape = true;\n        while (css.charCodeAt(next + 1) === BACKSLASH) {\n            next += 1;\n            escape = !escape;\n        }\n        code = css.charCodeAt(next + 1);\n        if (\n            escape\n            &&\n            (code !== SLASH &&\n            code !== SPACE &&\n            code !== NEWLINE &&\n            code\n            !== TAB &&\n            code !== CR &&\n            code !== FEED)\n        ) {\n            next += 1;\n        }\n        tokens.push(['word', css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n        pos = next;\n        break;\n\n        default:\n            if (code === SLASH && css.charCodeAt(pos + 1) === ASTERISK) {\n                next =\n                css.indexOf('*/', pos + 2) + 1;\n                if (next === 0) {\n                    if (ignore) {\n                        next = css.length;\n                    }\n                } else {\n                    unclosed('comment');\n                }\n                content = css.slice(pos, next + 1);\n                lines =\n                content.split('\n');\n                last = lines.length - 1;\n                if (last > 0) {\n                    nextLine = line + last;\n                    nextOffset = next - lines[last].length;\n                } else {\n                    nextLine = line;\n                    nextOffset = offset;\n                }\n                tokens.push(['comment', content, line, pos - offset, nextLine, next - nextOffset]);\n                offset =\n                nextOffset;\n                line = nextLine;\n                pos = next;\n            } else {\n                RE_WORD_END.lastIndex = pos +\n                1;\n                RE_WORD_END.test(css);\n                if (RE_WORD_END.lastIndex === 0) {\n                    next = css.length -\n                    1;\n                } else {\n                    next = RE_WORD_END.lastIndex - 2;\n                }\n                tokens.push(['word',\n                css.slice(pos, next + 1), line, pos - offset, line, next - offset]);\n                pos = next;\n            }\n            break;\n        }\n    }\n    return tokens;\n}\n\n"/ @flow\nimport tokenize from './tokenize';\nimport Input from\n './input';\n\nconst HIGHLIGHT_THEME = {\n    brackets: [36, 39], // cyan\n    string: [31, 39], // red\n    'at-word': [31,\n    39], // red\n    comment:\n    [90, 39], // gray\n    ':': [32, 39], // green\n    ' ': [32, 39], // green\n    '::': [1, 22], // bold\n    ' ': [1, 22], // bold\n    '(': [1,\n    22], // bold\n    ')': [1, 22], // bold\n};\n\nfunction code(color) {\n    return `\\u001b[${color}m`;\n}\n\nfunction\n terminalHighlight(css) {\n    const tokens = tokenize(new Input(css), { ignoreErrors: true });\n    const result = [];\n    tokens.forEach(token => {\n        const color = HIGHLIGHT_THEME[token[0];\n        if (color) {\n            result.push(\n            token[1]\n            .split(/r?/)\n            .map(i => code(color[0]) + i + code(color[1]))\n            .join('\n')\n            );\n        } else {\n            result.push(token[1]);\n        }\n    });\n    return result.join('');\n}\n\nexport default terminalHighlight;\n\n"/\n\n@flow\nimport supportsColor from 'supports-color';\nimport terminalHighlight from './terminal-\nhighlight';\nimport warnOnce from './warn-once';\n\n/**\n * The CSS parser throws this error for broken CSS.\n *\n * Custom parsers can throw this error for\n\n broken custom syntax using\n * the {@link Node#error} method.\n *\n * PostCSS will use the input source map to\n detect the original error location.\n *\n * If you wrote a Sass file, compiled it to CSS and then parsed it with PostCSS,\n *\n * PostCSS will show the original position in the Sass file.\n *\n * If you need the position in the PostCSS input\n * (e.g., to debug the previous compiler), use `error.input.file`.\n *\n * @example\n * // Catching and checking syntax\n error\n * try {\n *     postcss.parse('a{\n * }')\n * } catch (error) {\n *     if (error.name === 'CssSyntaxError') {\n *         error\n * //=> CssSyntaxError\n *     }\n * }\n *\n * @example\n * // Raising error from plugin\n * throw node.error('Unknown\n variable', { plugin: 'postcss-vars' });\n *\n * @class CssSyntaxError\n * /**\n * @param {string} message - error\n message\n * @param {number} [line] - source line of the error\n * @param {number} [column] - source column\n of the error\n * @param {string} [source] - source code of the broken\n file\n * @param {string} [file] - absolute path to the broken file\n * @param {string} [plugin] - PostCSS plugin\n name, if error came from plugin\n *\n * @constructor(message, line, column, source, file, plugin) {\n * /**\n * @member {string} - Always equal to `CssSyntaxError`. You should\n * always check error type\n *\n * by `error.name === 'CssSyntaxError` instead of\n * `error instanceof CssSyntaxError`,\n because\n * npm could have several PostCSS versions.\n *\n * @example\n * if (error.name\n === 'CssSyntaxError') {\n *     error //=> CssSyntaxError\n * }\n *\n * this.name = 'CssSyntaxError';\n *\n * @member {string} - Error message.\n *\n * @example\n * error.message //=> 'Unclosed block'\n *\n * this.reason = message;\n\n if (file) {\n * /**\n * @member {string} - Absolute path to the broken\n file.\n *\n */

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    * @example\n    * error.file //=> 'a.sass'\n    * error.input.file //=> 'a.css'\n    *\n    this.file = file;\n}\n if (source) {\n /**\n * @member {string} - Source code of the broken file.\n *\n * @example\n * error.source //=> 'a { b { } }\n * error.input.column //=> 'a b { }\n *\n this.source = source;\n}\n if (plugin) {\n /**\n * @member {string} - Plugin name, if error came from plugin.\n *\n * @example\n * error.plugin //=> 'postcss-vars'\n *\n this.plugin = plugin;\n }\n if (typeof line !==\n 'undefined' && typeof column !== 'undefined') {\n /**\n * @member {number} - Source line of the error.\n *\n * @example\n * error.line //=> 2\n * error.input.line //=> 4\n *\n this.line = line;\n /**\n * @member {number} - Source column of the error.\n *\n * @example\n * error.column\n //=> 1\n * error.input.column //=> 4\n *\n this.column = column;\n }\n}\n this.setMessage();\n\n if (Error.captureStackTrace) {\n Error.captureStackTrace(this, CssSyntaxError);\n }\n }\n\n setMessage() {\n /**\n * @member {string} - Full error text in the GNU error format\n * with plugin, file, line and\n column.\n *\n * @example\n * error.message //=> 'a.css:1:1: Unclosed block'\n *\n this.message =\n this.plugin ? `${this.plugin}: ` : `;\n this.message += this.file ? this.file : '<css input>';\n if (typeof this.line !==\n 'undefined') {\n this.message += `:${this.line}:${this.column}`;\n }\n this.message += `: ${this.reason}`;\n }\n\n /**\n * Returns a few lines of CSS source that caused the error.\n *\n * If the CSS has an input source map\n without `sourceContent`,\n * this method will return an empty string.\n *\n * @param {boolean} [color] whether\n arrow will\n be colored red by terminal\n * color codes. By default, PostCSS will detect\n * color support by `process.stdout.isTTY`\n * and `process.env.NODE_DISABLE_COLORS`.\n *\n * @example\n * error.showSourceCode() //=> `|\n * // 5 | a {\n * // 6 | bad\n * // | ^\n * // 7 | }\n * // 8 | b {\n * @return {string} few lines of CSS source that caused the error\n *\n showSourceCode(color) {\n if\n (!this.source) return `;\n\n let css = this.source;\n if (typeof color === 'undefined') color = supportsColor;\n if\n (color) css = terminalHighlight(css);\n\n const lines = css.split(/\\r?\\n/);\n const start = Math.max(this.line - 3,\n 0);\n const end = Math.min(this.line + 2, lines.length);\n\n const maxWidth = String(end).length;\n\n return lines\n .slice(start, end)\n .map((line, index) => {\n const number = start + 1 + index;\n const\n padded = `${number}`.slice(-maxWidth);\n const gutter = `${padded} | `;\n if (number === this.line) {\n const spacing =\n gutter.replace(/\\d/g, ' ') + line.slice(0, this.column - 1).replace(/[^\\t]/g, ' ');\n return `>${gutter}${line}\\n ${spacing}^`;\n } else {\n return `${gutter}${line}`;\n }\n })\n .join("\\n");\n }\n\n /**\n * Returns error position, message and source code of the broken part.\n *\n * @example\n * error.toString() //=> `CssSyntaxError: app.css:1:1: Unclosed block\n * // > 1 | a {\n * // | ^`\n *\n * @return {string} error position, message and source code\n *\n toString() {\n let code = this.showSourceCode();\n if (code) {\n code = `\\n\\n${code}\\n`;\n }\n return\n `${this.name}: ${this.message}${code}`;\n }\n\n get generated() {\n warnOnce('CssSyntaxError#generated is\n deprecated. Use input instead.);\n return this.input;\n }\n\n /**\n * @memberof CssSyntaxError#\n *\n * @member {Input} input - Input object with PostCSS internal information\n * about input file. If\n input has source map\n * from previous tool, PostCSS will use origin\n * (for\n example, Sass) source. You can use this\n * object to get PostCSS input source.\n *\n * @example\n * error.input.file //=> 'a.css'\n * error.file //=> 'a.sass'\n *\n }\n\n\nexport default\n CssSyntaxError;\n",\n // @flow\n /* eslint-disable valid-jsdoc\n *\nconst defaultRaw = {\n colon: ': ',\n indent: '\n',\n beforeDecl: '\\n',\n beforeRule: '\\n',\n beforeOpen: ' ',\n beforeClose: '\\n',\n beforeComment: '\\n',\n after: '\\n',\n emptyBody: '',\n commentLeft: ' ',\n commentRight: ' ',\n};\n\nfunction capitalize(str) {\n return str[0].toUpperCase() + str.slice(1);\n}\n\nclass Stringifier {\n constructor(builder) {\n this.builder = builder;\n }\n\n stringify(node, semicolon) {\n this[node.type](node,\n semicolon);\n }\n\n root(node) {\n this.body(node);\n if (node.raws.after) this.builder(node.raws.after);\n }\n\n comment(node) {\n const left = this.raw(node, 'left', 'commentLeft');\n const right = this.raw(node, 'right',\n 'commentRight');\n this.builder(`${left}${node.text}${right}`,\n node);\n }\n\n decl(node, semicolon) {\n const between = this.raw(node, 'between', 'colon');\n let string = node.prop + between + this.rawValue(node,\n
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'value');\n\n if (node.important) {\n string += node.rows.important || '!important';\n }\n\n if (semicolon)
string += ';\n this.builder(string, node);\n }\n\n rule(node) {\n this.block(node, this.rawValue(node,
'selector'));\n }\n\n atrule(node, semicolon) {\n
let name = `@${node.name}`;\n const params = node.params ? this.rawValue(node, 'params') : '';\n\n if (typeof
node.rows.afterName !== 'undefined') {\n name += node.rows.afterName;\n } else if (params) {\n name += '
';\n }\n\n if (node.nodes) {\n this.block(node, name + params);\n } else {\n const end =
(node.rows.between || ") + (semicolon ? ';' : ");\n this.builder(name + params + end, node);\n }\n }\n\n
body(node) {\n let last = node.nodes.length - 1;\n while (last > 0) {\n if (node.nodes[last].type !== 'comment')
break;\n last -= 1;\n }\n\n const semicolon = this.raw(node, 'semicolon');\n for (let i = 0; i <
node.nodes.length; i++) {\n const child = node.nodes[i];\n const before = this.raw(child, 'before');\n if
(before) this.builder(before);\n this.stringify(child, last !== i || semicolon);\n }\n }\n\n block(node, start) {\n
const between = this.raw(node, 'between', 'beforeOpen');\n
this.builder(`${start + between}`, node, 'start');\n\n let after;\n if (node.nodes && node.nodes.length) {\n
this.body(node);\n after = this.raw(node, 'after');\n } else {\n after = this.raw(node, 'after', 'emptyBody');\n
}\n\n if (after) this.builder(after);\n this.builder('}', node, 'end');\n }\n\n raw(node, own, detect) {\n let value;\n
if (!detect) detect = own;\n\n // Already had\n if (own) {\n value = node.rows[own];\n if (typeof value
!== 'undefined') return value;\n }\n\n const parent = node.parent;\n\n // Hack for first rule in CSS\n if (detect
=== 'before') {\n if (!parent || (parent.type === 'root' && parent.first === node)) {\n return ";\n }\n }\n\n
// Floating child without parent\n if (!parent) return defaultRaw[detect];\n\n // Detect style by other nodes\n
const root = node.root();\n if (!root.rawCache) root.rawCache = {};\n if (typeof root.rawCache[detect]
!== 'undefined') {\n return root.rawCache[detect];\n }\n\n if (detect === 'before' || detect === 'after') {\n
return this.beforeAfter(node, detect);\n } else {\n const method = `raw${capitalize(detect)}`;\n if
(this[method]) {\n value = this[method](root, node);\n } else {\n root.walk(i => {\n value =
i.rows[own];\n if (typeof value !== 'undefined') return false;\n });\n }\n }\n\n if (typeof value ===
'undefined') value = defaultRaw[detect];\n\n root.rawCache[detect] = value;\n return value;\n }\n\n
rawSemicolon(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length && i.last.type ===
'decl') {\n value = i.rows.semicolon;\n if (typeof value !== 'undefined') return false;\n }\n });\n return
value;\n }\n\n rawEmptyBody(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length === 0)
{\n value = i.rows.after;\n
if (typeof value !== 'undefined') return false;\n }\n });\n return value;\n }\n\n rawIndent(root) {\n if
(root.rows.indent) return root.rows.indent;\n let value;\n root.walk(i => {\n const p = i.parent;\n if (p && p
!== root && p.parent && p.parent === root) {\n if (typeof i.rows.before !== 'undefined') {\n const parts =
i.rows.before.split("\n");\n value = parts[parts.length - 1];\n value = value.replace(/[\s]/g, ");\n
return false;\n }\n }\n });\n return value;\n }\n\n rawBeforeComment(root, node) {\n let value;\n
root.walkComments(i => {\n if (typeof i.rows.before !== 'undefined') {\n value = i.rows.before;\n if
(value.indexOf("\n") !== -1) {\n value = value.replace(/[\n]+$/, ");\n }\n return false;\n }\n });\n
if (typeof value === 'undefined') {\n value = this.raw(node, null, 'beforeDecl');\n }\n return
value;\n }\n\n rawBeforeDecl(root, node) {\n let value;\n root.walkDecls(i => {\n if (typeof i.rows.before
!== 'undefined') {\n value = i.rows.before;\n if (value.indexOf("\n") !== -1) {\n value =
value.replace(/[\n]+$/, ");\n }\n return false;\n }\n });\n if (typeof value === 'undefined') {\n
value = this.raw(node, null, 'beforeRule');\n }\n return value;\n }\n\n rawBeforeRule(root) {\n let value;\n
root.walk(i => {\n if (i.nodes && (i.parent !== root || root.first !== i)) {\n if (typeof i.rows.before !==
'undefined') {\n value = i.rows.before;\n if (value.indexOf("\n") !== -1) {\n value =
value.replace(/[\n]+$/, ");\n }\n return false;\n }\n }\n });\n return value;\n }\n\n
rawBeforeClose(root) {\n let value;\n root.walk(i => {\n if (i.nodes && i.nodes.length > 0) {\n if (typeof
i.rows.after !== 'undefined')
{\n value = i.rows.after;\n if (value.indexOf("\n") !== -1) {\n value = value.replace(/[\n]+$/,
");\n }\n }\n return false;\n }\n }\n });\n return value;\n }\n\n rawBeforeOpen(root) {\n let

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value;\n root.walk(i => {\n   if (i.type !== 'decl') {\n     value = i.raws.between;\n     if (typeof value !==
'undefined') return false;\n   }\n });\n return value;\n }\n\n rawColon(root) {\n   let value;\n   root.walkDecls(i => {\n     if (typeof i.raws.between !== 'undefined') {\n       value =
i.raws.between.replace(/^[^:]/g, ");\n       return false;\n     }\n   });\n   return value;\n }\n\n beforeAfter(node,
detect) {\n   let value;\n   if (node.type === 'decl') {\n     value = this.raw(node, null, 'beforeDecl');\n   } else if
(node.type === 'comment') {\n     value = this.raw(node, null, 'beforeComment');\n   } else if (detect === 'before')
{\n     value = this.raw(node, null,
'beforeRule');\n   } else {\n     value = this.raw(node, null, 'beforeClose');\n   }\n\n   let buf = node.parent;\n   let
depth = 0;\n   while (buf && buf.type !== 'root') {\n     depth += 1;\n     buf = buf.parent;\n   }\n\n   if
(value.indexOf("\n") !== -1) {\n     const indent = this.raw(node, null, 'indent');\n     if (indent.length) {\n       for
(let step = 0; step < depth; step++) value += indent;\n     }\n   }\n\n   return value;\n }\n\n rawValue(node, prop)
{\n   const value = node[prop];\n   const raw = node.raws[prop];\n   if (raw && raw.value === value) {\n     return
raw.raw;\n   } else {\n     return value;\n   }\n }\n\n\nexport default Stringifier;\n", "// @flow\nimport Stringifier
from './stringifier';\n\nexport default function stringify(node, builder) {\n   const str = new Stringifier(builder);\n   str.stringify(node);\n }\n", "// @flow\nimport CssSyntaxError from './css-syntax-error';\nimport Stringifier from
'./stringifier';\nimport stringify
from './stringify';\nimport warnOnce from './warn-once';\n\n/**\n * @typedef {object} position\n * @property
{number} line - source line in file\n * @property {number} column - source column in file\n *\n *\n *\n * @typedef {object} source\n * @property {Input} input - {@link Input} with input file\n * @property {position}
start - The starting position of the node's source\n * @property {position} end - The ending position of the node's
source\n *\n *\n const cloneNode = function(obj, parent) {\n   const cloned = new obj.constructor();\n\n   for (const i in
obj) {\n     if (!obj.hasOwnProperty(i)) continue;\n     let value = obj[i];\n     const type = typeof value;\n\n     if (i ===
'parent' && type === 'object') {\n       if (parent) cloned[i] = parent;\n     } else if (i === 'source') {\n       cloned[i] =
value;\n     } else if (value instanceof Array) {\n       cloned[i] = value.map(j => cloneNode(j, cloned));\n     } else if (i
!== 'before' && i !== 'after' && i !== 'between' && i !==
'semicolon') {\n       if (type === 'object' && value !== null) value = cloneNode(value);\n       cloned[i] = value;\n
}\n   }\n\n   return cloned;\n };
\n\n /**\n * All node classes inherit the following common methods.\n *\n * @abstract\n *\n *\n class Node {\n   /**\n    * @param {object} [defaults] - value for node properties\n    *\n    * constructor(defaults =
{}) {\n     this.raws = {};\n     for (const name in defaults) {\n       this[name] = defaults[name];\n     }\n   }\n }\n\n /**\n * Returns a CssSyntaxError instance containing the original position\n * of the node in the source, showing line and
column numbers and also\n * a small excerpt to facilitate debugging.\n *\n * If present, an input source map will
be used to get the original position\n * of the source, even from a previous compilation step\n * (e.g., from Sass
compilation).\n *\n * This method produces very useful error messages.\n *\n * @param {string} message -
error description\n * @param {object} [opts]
- options\n * @param {string} opts.plugin - plugin name that created this error.\n *
PostCSS will set it automatically.\n * @param {string} opts.word - a word inside a node's string that should\n *
be highlighted as the source of the error\n * @param {number} opts.index - an index inside a
node's string that should\n * be highlighted as the source of the error\n *\n * @return
{CssSyntaxError} error object to throw it\n *\n * @example\n * if (!variables[name]) {\n *   throw
decl.error('Unknown variable ' + name, { word: name });\n *   // CssSyntaxError: postcss-vars:a.sass:4:3: Unknown
variable $black\n *   // color: $black\n *   // a\n *   // ^\n *   // background: white\n * }\n *\n error(message, opts = {}) {\n   if (this.source) {\n     const pos = this.positionBy(opts);\n     return
this.source.input.error(message, pos.line, pos.column,
opts);\n   } else {\n     return new CssSyntaxError(message);\n   }\n }\n\n /**\n * This method is provided as a
convenience wrapper for {@link Result#warn}.\n *\n * @param {Result} result - the {@link Result}
instance\n * @param {string} text - warning message\n * @param {object} [opts] - options\n * @param {string} opts.plugin - plugin name that created this warning.\n *
PostCSS will set it automatically.\n * @param {string} opts.word - a word inside a node's

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string that should\n * be highlighted as the source of the warning\n * @param {number}
opts.index - an index inside a node's string that should\n * be highlighted as the source of the
warning\n * @return {Warning} created warning object\n * @example\n * const plugin =
postcss.plugin('postcss-deprecated',
() => {\n * return (root, result) => {\n * root.walkDecls('bad', decl => {\n * decl.warn(result, 'Deprecated
property bad');\n * });\n * });\n * }\n * warn(result, text, opts) {\n const data = { node: this };\n for
(const i in opts) data[i] = opts[i];\n return result.warn(text, data);\n }\n\n /**\n * Removes the node from its
parent and cleans the parent properties\n * from the node and its children.\n * @example\n * if (
decl.prop.match(/^~webkit-/)) {\n * decl.remove();\n * }\n * @return {Node} node to make calls chain\n
*\n * remove() {\n if (this.parent) {\n this.parent.removeChild(this);\n }\n this.parent = undefined;\n return
this;\n }\n\n /**\n * Returns a CSS string representing the node.\n * @param {stringifier|syntax}
[stringifier] - a syntax to use\n * in string generation\n * @return {string} CSS
string of this
node\n * @example\n * postcss.rule({ selector: 'a' }).toString() // => \"a {\n * toString(stringifier =
stringify) {\n if (stringifier.stringify) stringifier = stringifier.stringify;\n let result = \";\n stringifier(this, i => {\n
result += i;\n });\n return result;\n }\n\n /**\n * Returns a clone of the node.\n * The resulting cloned
node and its (cloned) children will have\n * a clean parent and code style properties.\n * @param {object}
[overrides] - new properties to override in the clone.\n * @example\n * const cloned = decl.clone({ prop: '-
moz-' + decl.prop });\n * cloned.raws.before // => undefined\n * cloned.parent // => undefined\n *
cloned.toString() // => -moz-transform: scale(0)\n * @return {Node} clone of the node\n *\n
clone(overrides = {}) {\n const cloned = cloneNode(this);\n for (const name in overrides) {\n cloned[name] =
overrides[name];\n }\n return cloned;\n
}\n\n /**\n * Shortcut to clone the node and insert the resulting cloned node\n * before the current node.\n *
@param {object} [overrides] - new properties to override in the clone.\n * @example\n *
decl.cloneBefore({ prop: '-moz-' + decl.prop });\n * @return {Node} - new node\n *\n
cloneBefore(overrides = {}) {\n const cloned = this.clone(overrides);\n this.parent.insertBefore(this, cloned);\n
return cloned;\n }\n\n /**\n * Shortcut to clone the node and insert the resulting cloned node\n * after the current
node.\n * @param {object} [overrides] - new properties to override in the clone.\n * @return {Node} -
new node\n *\n cloneAfter(overrides = {}) {\n const cloned = this.clone(overrides);\n
this.parent.insertAfter(this, cloned);\n return cloned;\n }\n\n /**\n * Inserts node(s) before the current node and
removes the current node.\n * @param {...Node} nodes - node(s) to replace current one\n
*\n * @example\n * if ( atrule.name === 'mixin' ) {\n * atrule.replaceWith(mixinRules[atrule.params]);\n *
}\n * @return {Node} current node to methods chain\n *\n replaceWith(...nodes) {\n if (this.parent) {\n
nodes.forEach(node => {\n this.parent.insertBefore(this, node);\n });\n this.remove();\n }\n\n return
this;\n }\n\n /**\n * Removes the node from its current parent and inserts it\n * at the end of `newParent`.\n *
This will clean the `before` and `after` code { @link Node#raws } data\n * from the node and replace them with
the indentation style of `newParent`.\n * It will also clean the `between` property\n * if `newParent` is in another
{ @link Root }.\n * @param {Container} newParent - container node where the current node\n *
will be moved\n * @example\n * atrule.moveTo(atrule.root());\n * @return {Node} current node
to methods chain\n *\n
moveTo(newParent) {\n this.cleanRaws(this.root() === newParent.root());\n this.remove();\n
newParent.append(this);\n return this;\n }\n\n /**\n * Removes the node from its current parent and inserts it
into\n * a new parent before `otherNode`.\n * This will also clean the node's code style properties just as it
would\n * in { @link Node#moveTo }.\n * @param {Node} otherNode - node that will be before current
node\n * @return {Node} current node to methods chain\n *\n moveBefore(otherNode) {\n
this.cleanRaws(this.root() === otherNode.root());\n this.remove();\n otherNode.parent.insertBefore(otherNode,
this);\n return this;\n }\n\n /**\n * Removes the node from its current parent and inserts it into\n * a new parent
after `otherNode`.\n * This will also clean the node's code style properties just as it would\n * in { @link

```



```

Node#moveTo}\n *\n * @param {Node} otherNode - node that will be after current node\n *\n
* @return {Node} current node to methods chain\n */\n moveAfter(otherNode) {\n this.cleanRaws(this.root())
=== otherNode.root());\n this.remove();\n otherNode.parent.insertAfter(otherNode, this);\n return this;\n }\n\n
/**\n * Returns the next child of the node's parent.\n * Returns `undefined` if the current node is the last child.\n
*\n * @return {Node|undefined} next node\n *\n * @example\n * if ( comment.text === 'delete next' ) {\n *
const next = comment.next();\n * if ( next ) {\n * next.remove();\n * }\n * }\n */\n next() {\n const
index = this.parent.index(this);\n return this.parent.nodes[index + 1];\n }\n\n /**\n * Returns the previous child
of the node's parent.\n * Returns `undefined` if the current node is the first child.\n *\n * @return
{Node|undefined} previous node\n *\n * @example\n * const annotation = decl.prev();\n * if ( annotation.type
=== 'comment' ) {\n * readAnnotation(annotation.text);\n
*\n * }\n */\n prev() {\n const index = this.parent.index(this);\n return this.parent.nodes[index - 1];\n }\n\n
toJSON() {\n const fixed = {};\n for (const name in this) {\n if (!this.hasOwnProperty(name)) continue;\n
if (name === 'parent') continue;\n const value = this[name];\n if (value instanceof Array) {\n
fixed[name] = value.map(i => {\n if (typeof i === 'object' && i.toJSON) {\n return i.toJSON();\n
} else {\n return i;\n });\n } else if (typeof value === 'object' && value.toJSON) {\n
fixed[name] = value.toJSON();\n } else {\n fixed[name] = value;\n }\n }\n return fixed;\n }\n\n
/**\n * Returns a {@link Node#raws} value. If the node is missing\n * the code style property (because the node
was manually built or cloned),\n * PostCSS will try to autodetect the code style property by looking\n * at other
nodes in the tree.\n
*\n * @param {string} prop - name of code style property\n * @param {string} [defaultType] - name of
default value, it can be missed\n * if the value is the same as prop\n *\n * @example\n *
const root = postcss.parse('a { background: white }');\n * root.nodes[0].append({ prop: 'color', value: 'black' });\n
*\n * root.nodes[0].nodes[1].raws.before //=> undefined\n * root.nodes[0].nodes[1].raw('before') //=> '\n *\n *
*\n * @return {string} code style value\n */\n raw(prop, defaultType) {\n const str = new Stringifier();\n return
str.raw(this, prop, defaultType);\n }\n\n /**\n * Finds the Root instance of the node's tree.\n *\n * @example\n
*\n * root.nodes[0].nodes[0].root() === root\n *\n * @return {Root} root parent\n */\n root() {\n let result =
this;\n while (result.parent) result = result.parent;\n return result;\n }\n\n cleanRaws(keepBetween) {\n delete
this.raws.before;\n delete
this.raws.after;\n if (!keepBetween) delete this.raws.between;\n }\n\n positionInside(index) {\n const string =
this.toString();\n let column = this.source.start.column;\n let line = this.source.start.line;\n for (let i = 0; i <
index; i++) {\n if (string[i] === '\\n') {\n column = 1;\n line += 1;\n } else {\n column += 1;\n
}\n }\n return { line, column };\n }\n\n positionBy(opts) {\n let pos = this.source.start;\n if (opts.index)
{\n pos = this.positionInside(opts.index);\n } else if (opts.word) {\n const index =
this.toString().indexOf(opts.word);\n if (index !== -1) pos = this.positionInside(index);\n }\n return pos;\n
}\n\n removeSelf() {\n warnOnce('Node#removeSelf is deprecated. Use Node#remove.);\n return
this.remove();\n }\n\n replace(nodes) {\n warnOnce('Node#replace is deprecated. Use Node#replaceWith');\n
return this.replaceWith(nodes);\n }\n\n style(own, detect)
{\n warnOnce('Node#style() is deprecated. Use Node#raw()');\n return this.raw(own, detect);\n }\n\n
cleanStyles(keepBetween) {\n warnOnce('Node#cleanStyles() is deprecated. Use Node#cleanRaws()');\n return
this.cleanRaws(keepBetween);\n }\n\n get before() {\n warnOnce('Node#before is deprecated. Use
Node#raws.before');\n return this.raws.before;\n }\n\n set before(val) {\n warnOnce('Node#before is
deprecated. Use Node#raws.before');\n this.raws.before = val;\n }\n\n get between() {\n
warnOnce('Node#between is deprecated. Use Node#raws.between');\n return this.raws.between;\n }\n\n set
between(val) {\n warnOnce('Node#between is deprecated. Use Node#raws.between');\n this.raws.between =
val;\n }\n\n /**\n * @memberof Node#\n * @member {string} type - String representing the node's type.\n *
Possible values are `root`, `atrule`, `rule`,\n * `decl`, or `comment`.\n *\n * @example\n

```



```

* `important`: the content of the important statement,\n * if it is not just `!important`.\n *\n * PostCSS cleans
declaration from comments and extra spaces,\n * but it stores origin content in raws properties.\n * As such, if
you don't change a declaration's value,\n * PostCSS will use the raw value with comments.\n *\n * @example\n
* const root = postcss.parse('a {\n color:black\n})\n * root.first.first.raws //=> { before: '\n ', between: ':' }\n
*/\n\n\nexport default Declaration;\n", "/* @flow\nimport warnOnce from './warn-once';\nimport Node from
 './node';\n\n/**\n * Represents a comment between
declarations or statements (rule and at-rules).\n *\n * Comments inside selectors, at-rule parameters, or declaration
values\n * will be stored in the `raws` properties explained above.\n *\n * @extends Node\n */\n\nclass Comment
extends Node {\n constructor(defaults) {\n super(defaults);\n this.type = 'comment';\n }\n\n get left() {\n
warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n return this.raws.left;\n }\n\n set left(val)
{\n warnOnce('Comment#left was deprecated. Use Comment#raws.left');\n this.raws.left = val;\n }\n\n get
right() {\n warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n return this.raws.right;\n
}\n\n set right(val) {\n warnOnce('Comment#right was deprecated. Use Comment#raws.right');\n this.raws.right
= val;\n }\n\n /**\n * @memberof Comment#\n * @member {string} text - the comment's text\n */\n\n /**\n
* @memberof Comment#\n * @member {object} raws - Information to generate
byte-to-byte equal\n * node string as it was in the origin input.\n *\n * Every parser saves its own
properties,\n * but the default CSS parser uses:\n *\n * * `before`: the space symbols before the node.\n * *
`left`: the space symbols between `/*` and the comment's text.\n * * `right`: the space symbols between the
comment's text.\n */\n\n\nexport default Comment;\n", "/* @flow\nimport Declaration from
 './declaration';\nimport tokenizer from './tokenizer';\nimport Comment from './comment';\nimport AtRule from './at-
rule';\nimport Root from './root';\nimport Rule from './rule';\n\nexport default class Parser {\n constructor(input) {\n
this.input = input;\n\n this.pos = 0;\n this.root = new Root();\n this.current = this.root;\n this.spaces = "";\n
this.semicolon = false;\n\n this.root.source = { input, start: { line: 1, column: 1 } };\n }\n\n tokenize() {\n
this.tokens = tokenizer(this.input);\n }\n\n loop() {\n
let token;\n while (this.pos < this.tokens.length) {\n token = this.tokens[this.pos];\n\n switch (token[0]) {\n
case 'space':\n case ';':\n this.spaces += token[1];\n break;\n\n case '}':\n
this.end(token);\n break;\n\n case 'comment':\n this.comment(token);\n break;\n\n case 'at-
word':\n this.atrule(token);\n break;\n\n case '{':\n this.emptyRule(token);\n break;\n\n
default:\n this.other();\n break;\n }\n\n this.pos += 1;\n }\n\n this.endFile();\n }\n\n
comment(token) {\n const node = new Comment();\n this.init(node, token[2], token[3]);\n node.source.end = {
line: token[4], column: token[5] };\n\n const text = token[1].slice(2, -2);\n if (/^\\s*$/ .test(text)) {\n node.text
= "";\n node.raws.left = text;\n node.raws.right = "";\n } else {\n const match =
text.match(/^\\s*(\\s*)([^\s]*)(\\s*)$/);\n
node.text = match[2];\n node.raws.left = match[1];\n node.raws.right = match[3];\n }\n }\n\n
emptyRule(token) {\n const node = new Rule();\n this.init(node, token[2], token[3]);\n node.selector = "";\n
node.raws.between = "";\n this.current = node;\n }\n\n other() {\n let token;\n let end = false;\n let type =
null;\n let colon = false;\n let bracket = null;\n const brackets = [];\n const start = this.pos;\n while
(this.pos < this.tokens.length) {\n token = this.tokens[this.pos];\n type = token[0];\n\n if (type === '(' || type
=== '[') {\n if (!bracket) bracket = token;\n brackets.push(type === '(' ? ')' : ']');\n } else if
(brackets.length === 0) {\n if (type === ';') {\n if (colon) {\n this.decl(this.tokens.slice(start,
this.pos + 1));\n return;\n } else {\n break;\n }\n } else if
(type === '{') {\n this.rule(this.tokens.slice(start, this.pos + 1));\n return;\n } else if (type === '}')
{\n this.pos -= 1;\n end = true;\n break;\n } else if (type === ':') {\n colon = true;\n
}\n } else if (type === brackets[brackets.length - 1]) {\n brackets.pop();\n if (brackets.length === 0)
bracket = null;\n }\n\n this.pos += 1;\n }\n\n if (this.pos === this.tokens.length) {\n this.pos -= 1;\n
end = true;\n }\n\n if (brackets.length > 0) this.unclosedBracket(bracket);\n\n if (end && colon) {\n while
(this.pos > start) {\n token = this.tokens[this.pos][0];\n if (token !== 'space' && token !== 'comment')
break;\n this.pos -= 1;\n }\n this.decl(this.tokens.slice(start, this.pos + 1));\n return;\n }\n\n

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this.unknownWord(start);\n }\\n\\n rule(tokens) {\n  tokens.pop();\\n\\n  const node = new Rule();\\n
this.init(node,
  tokens[0][2], tokens[0][3]);\\n\\n  node.rows.between = this.spacesFromEnd(tokens);\\n  this.raw(node, 'selector',
tokens);\\n  this.current = node;\\n }\\n\\n decl(tokens) {\n  const node = new Declaration();\\n  this.init(node);\\n\\n
const last = tokens[tokens.length - 1];\\n  if (last[0] === ';') {\n    this.semicolon = true;\\n    tokens.pop();\\n  }\\n
if (last[4]) {\n    node.source.end = { line: last[4], column: last[5] };\\n  } else {\n    node.source.end = { line:
last[2], column: last[3] };\\n  }\\n\\n  while (tokens[0][0] !== 'word') {\n    node.rows.before += tokens.shift()[1];\\n
}\\n  node.source.start = { line: tokens[0][2], column: tokens[0][3] };\\n\\n  node.prop = "";\\n  while (tokens.length)
{\n    const type = tokens[0][0];\\n    if (type === '.' || type === 'space' || type === 'comment') {\n      break;\\n
}\\n  }\\n  node.prop += tokens.shift()[1];\\n }\\n\\n  node.rows.between = "";\\n\\n  let token;\\n  while (tokens.length)
{\n    token = tokens.shift();\\n\\n    if (token[0] === ':') {\n      node.rows.between += token[1];\\n      break;\\n
}\\n  } else {\n    node.rows.between += token[1];\\n  }\\n }\\n\\n  if (node.prop[0] === '_' || node.prop[0] === '*') {\\n
node.rows.before += node.prop[0];\\n  node.prop = node.prop.slice(1);\\n }\\n  node.rows.between +=
this.spacesFromStart(tokens);\\n  this.precheckMissedSemicolon(tokens);\\n\\n  for (let i = tokens.length - 1; i > 0;
i--) {\n    token = tokens[i];\\n    if (token[1] === '!important') {\n      node.important = true;\\n      let string =
this.stringFrom(tokens, i);\\n      string = this.spacesFromEnd(tokens) + string;\\n      if (string !== '!important')
node.rows.important = string;\\n      break;\\n    } else if (token[1] === 'important') {\n      const cache =
tokens.slice(0);\\n      let str = "";\\n      for (let j = i; j > 0; j--) {\n        const type = cache[j][0];\\n        if
(str.trim().indexOf('!')
=== 0 && type !== 'space') {\n          break;\\n        }\\n        str = cache.pop()[1] + str;\\n      }\\n      if
(str.trim().indexOf('!') === 0) {\n        node.important = true;\\n        node.rows.important = str;\\n        tokens =
cache;\\n      }\\n    }\\n\\n    if (token[0] !== 'space' && token[0] !== 'comment') {\n      break;\\n    }\\n }\\n\\n
this.raw(node, 'value', tokens);\\n\\n  if (node.value.indexOf(':') !== -1) this.checkMissedSemicolon(tokens);\\n }\\n\\n
atrule(token) {\n  const node = new AtRule();\\n  node.name = token[1].slice(1);\\n  if (node.name === "") {\n    this.unnamedAtrule(node, token);\\n  }\\n  this.init(node, token[2], token[3]);\\n\\n  let last = false;\\n  let open =
false;\\n  const params = [];\\n\\n  this.pos += 1;\\n  while (this.pos < this.tokens.length) {\n    token =
this.tokens[this.pos];\\n\\n    if (token[0] === ';') {\n      node.source.end = { line: token[2], column: token[3] };\\n
this.semicolon = true;\\n      break;\\n    } else if (token[0] === '{') {\n      open = true;\\n      break;\\n    } else if
(token[0] === '}') {\n      this.end(token);\\n      break;\\n    } else {\n      params.push(token);\\n    }\\n\\n
this.pos += 1;\\n  }\\n  if (this.pos === this.tokens.length) {\n    last = true;\\n  }\\n\\n  node.rows.between =
this.spacesFromEnd(params);\\n  if (params.length) {\n    node.rows.afterName = this.spacesFromStart(params);\\n
this.raw(node, 'params', params);\\n    if (last) {\n      token = params[params.length - 1];\\n      node.source.end
= { line: token[4], column: token[5] };\\n      this.spaces = node.rows.between;\\n      node.rows.between = "";\\n
}\\n  } else {\n    node.rows.afterName = "";\\n    node.params = "";\\n  }\\n\\n  if (open) {\n    node.nodes = [];\\n
this.current = node;\\n  }\\n }\\n\\n  end(token) {\n    if (this.current.nodes && this.current.nodes.length) {\n
this.current.rows.semicolon
= this.semicolon;\\n  }\\n  this.semicolon = false;\\n\\n  this.current.rows.after = (this.current.rows.after || ") +
this.spaces;\\n  this.spaces = "";\\n\\n  if (this.current.parent) {\n    this.current.source.end = { line: token[2],
column: token[3] };\\n    this.current = this.current.parent;\\n  } else {\n    this.unexpectedClose(token);\\n  }\\n }\\n
endFile() {\n  if (this.current.parent) this.unclosedBlock();\\n  if (this.current.nodes &&
this.current.nodes.length) {\n    this.current.rows.semicolon = this.semicolon;\\n  }\\n  this.current.rows.after =
(this.current.rows.after || ") + this.spaces;\\n }\\n\\n // Helpers\\n\\n init(node, line, column) {\n  this.current.push(node);\\n\\n  node.source = { start: { line, column }, input: this.input };\\n  node.rows.before =
this.spaces;\\n  this.spaces = "";\\n  if (node.type !== 'comment') this.semicolon = false;\\n }\\n\\n  raw(node, prop,
tokens) {\n    let token, type;\\n    const length
= tokens.length;\\n    let value = "";\\n    let clean = true;\\n    for (let i = 0; i < length; i += 1) {\n      token = tokens[i];\\n
      type = token[0];\\n      if (type === 'comment' || (type === 'space' && i === length - 1)) {\n        clean = false;\\n

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} else {\n    value += token[1];\n    }\n    }\n    if (!clean) {\n    const raw = tokens.reduce((all, i) => all + i[1],
");\n    node.raws[prop] = { value, raw };
}\n    node[prop] = value;\n    }\n    }\n    spacesFromEnd(tokens) {\n    let
lastTokenType;\n    let spaces = ";\n    while (tokens.length) {\n    lastTokenType = tokens[tokens.length - 1][0];\n
if (lastTokenType !== 'space' && lastTokenType !== 'comment') break;\n    spaces = tokens.pop()[1] + spaces;\n
}\n    return spaces;\n    }\n    }\n    spacesFromStart(tokens) {\n    let next;\n    let spaces = ";\n    while (tokens.length) {\n
next = tokens[0][0];\n    if (next !== 'space' && next !== 'comment') break;\n    spaces += tokens.shift()[1];\n
}\n    return spaces;\n    }\n    }\n    stringFrom(tokens, from) {\n    let result = ";\n    for (let i = from; i < tokens.length;
i++) {\n    result += tokens[i][1];\n    }\n    tokens.splice(from, tokens.length - from);\n    return result;\n    }\n    }\n
colon(tokens) {\n    let brackets = 0;\n    let token, type, prev;\n    for (let i = 0; i < tokens.length; i++) {\n    token =
tokens[i];\n    type = token[0];\n    if (type === '(') {\n    brackets += 1;\n    } else if (type === ')') {\n
brackets -= 1;\n    } else if (brackets === 0 && type === ':') {\n    if (!prev) {\n    this.doubleColon(token);\n
} else if (prev[0] === 'word' && prev[1] === 'progid') {\n    continue;\n    } else {\n    return i;\n
}\n    }\n    prev = token;\n    }\n    return false;\n    }\n    }\n    // Errors\n    unclosedBracket(bracket) {\n    throw
this.input.error('Unclosed bracket', bracket[2], bracket[3]);\n    }\n    }\n    unknownWord(start) {\n    const token
= this.tokens[start];\n    throw this.input.error('Unknown word', token[2], token[3]);\n    }\n    }\n
unexpectedClose(token) {\n    throw this.input.error('Unexpected }', token[2], token[3]);\n    }\n    }\n
unclosedBlock()\n    {\n    const pos = this.current.source.start;\n    throw this.input.error('Unclosed block', pos.line, pos.column);\n    }\n    }\n
doubleColon(token) {\n    throw this.input.error('Double colon', token[2], token[3]);\n    }\n    }\n
unnamedAtrule(node,
token) {\n    throw this.input.error('At-rule without name', token[2], token[3]);\n    }\n    }\n
precheckMissedSemicolon(tokens) {\n    // Hook for Safe Parser\n    tokens;\n    }\n    }\n
checkMissedSemicolon(tokens) {\n    const colon = this.colon(tokens);\n    if (colon === false) return;\n    let
founded = 0;\n    let token;\n    for (let j = colon - 1; j >= 0; j--) {\n    token = tokens[j];\n    if (token[0] !==
'space') {\n    founded += 1;\n    if (founded === 2) break;\n    }\n    }\n    throw this.input.error('Missed
semicolon',
token[2], token[3]);\n    }\n    }\n"}\n\n// @flow\nimport Parser from './parser';\nimport Input from './input';\n\nexport
default function parse(css, opts) {\n    if (opts && opts.safe) {\n    throw new Error('Option safe was removed. ' +
'Use parser: require(\\\"postcss-safe-parser\\\")');\n    }\n    }\n    const input = new Input(css, opts);\n    const parser = new
Parser(input);\n    try {\n    parser.tokenize();\n    parser.loop();\n    } catch (e) {\n    if (e.name === 'CssSyntaxError'
&& opts && opts.from) {\n    if (/\\.scss$/i.test(opts.from)) {\n    e.message +=\n        \"\\nYou tried to parse
SCSS with ' +\n        'the standard CSS parser; ' +\n        'try again with the postcss-scss parser;\"\n    } else if
(/\\.less$/i.test(opts.from)) {\n    e.message +=\n        \"\\nYou tried to parse Less with ' +\n        'the standard
CSS parser; ' +\n        'try again with the postcss-less parser;\"\n    }\n    }\n    throw e;\n    }\n    }\n    return
parser.root;\n    }\n    }\n"}\n\n// @flow\nimport
parse from './parse';\nimport Root from './root';\nimport Rule from './rule';\nimport AtRule from './at-rule';\nimport
Declaration from './declaration';\nimport warnOnce from './warn-once';\nimport Comment from './comment';\nimport
Node from './node';\n\nfunction cleanSource(nodes) {\n    return nodes.map(i => {\n    if (i.nodes) i.nodes =
cleanSource(i.nodes);\n    delete i.source;\n    return i;\n    });\n    }\n    }\n\n/**\n * @callback childCondition\n * @param
{Node} node - container child\n * @param {number} index - child index\n * @param {Node[]} nodes - all
container children\n * @return {boolean}\n */\n\n/**\n * @callback childIterator\n * @param {Node} node -
container child\n * @param {number} index - child index\n * @return {false|undefined} returning `false` will break
iteration\n */\n\n/**\n * The {@link Root}, {@link AtRule}, and {@link Rule} container nodes\n * inherit some
common methods to help work with their children.\n * Note that all containers can store any content.


If you write a rule inside\n * a rule, PostCSS will parse it.\n */\n * @extends Node\n * @abstract\n */\nnclass
Container extends Node {\n    push(child) {\n    child.parent = this;\n    this.nodes.push(child);\n    return this;\n    }\n    }\n\n/**\n * Iterates through the container's immediate children,\n * calling `callback` for each child.\n */\n *
Returning `false` in the callback will break iteration.\n */\n * This method only iterates through the container's
immediate children.\n * If you need to recursively iterate through all the container's descendant\n * nodes, use
{@link Container#walk}.\n */\n * Unlike the for `{}`-cycle or `Array#forEach` this iterator is safe\n * if you are


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mutating the array of child nodes during iteration.\n * PostCSS will adjust the current index to match the
mutations.\n *\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return
{false|undefined} returns `false` if iteration was broke\n *\n
* @example\n * const root = postcss.parse('a { color: black; z-index: 1 }');\n * const rule = root.first;\n *\n *
for ( let decl of rule.nodes ) {\n *   decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n *   // Cycle will be
infinite, because cloneBefore moves the current node\n *   // to the next index\n * }\n *\n * rule.each(decl =>
{\n *   decl.cloneBefore({ prop: '-webkit-' + decl.prop });\n *   // Will be executed only for color and z-index\n
* });\n *\n * ^\n * each(callback) {\n *   if (!this.lastEach) this.lastEach = 0;\n *   if (!this.indexes) this.indexes = {};\n *
this.lastEach += 1;\n *   const id = this.lastEach;\n *   this.indexes[id] = 0;\n *   if (!this.nodes) return undefined;\n *
let index, result;\n *   while (this.indexes[id] < this.nodes.length) {\n *     index = this.indexes[id];\n *     result =
callback(this.nodes[index], index);\n *     if (result === false) break;\n *     this.indexes[id] += 1;\n *   }\n *
delete this.indexes[id];\n *
return result;\n * }\n *
/**\n * Traverses the container's descendant nodes, calling callback\n * for each node.\n *
Like container.each(), this method is safe to use\n * if you are mutating arrays during iteration.\n *
If you only need to iterate through the container's immediate children,\n * use { @link Container#each }.\n *
@param {childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns
`false` if iteration was broke\n *\n * @example\n * root.walk(node => {\n *   // Traverses all descendant
nodes.\n * });\n *
^ walk(callback) {\n *   return this.each((child, i) => {\n *     let result = callback(child, i);\n *     if
(result !== false && child.walk) {\n *       result = child.walk(callback);\n *     }\n *     return result;\n *   });\n *
}\n *
/**\n * Traverses the container's descendant nodes, calling callback\n * for each declaration node.\n *
If you pass a filter,
iteration will only happen over declarations\n * with matching properties.\n *
Like { @link Container#each },
this method is safe\n * to use if you are mutating arrays during iteration.\n *
@param {string|RegExp} [prop]
- string or regular expression\n *
to filter declarations by property name\n *
@param
{childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns `false` if
iteration was broke\n *\n * @example\n * root.walkDecls(decl => {\n *   checkPropertySupport(decl.prop);\n *
});\n *
root.walkDecls('border-radius', decl => {\n *   decl.remove();\n * });\n *
root.walkDecls(/^background/, decl => {\n *   decl.value = takeFirstColorFromGradient(decl.value);\n * });\n *
^ walkDecls(prop, callback) {\n *   if (!callback) {\n *     callback = prop;\n *     return this.walk((child, i) => {\n
if (child.type === 'decl') {\n *       return
callback(child, i);\n *     }\n *   })\n *   } else if (prop instanceof RegExp) {\n *     return this.walk((child, i) => {\n
if (child.type === 'decl' && prop.test(child.prop)) {\n *       return callback(child, i);\n *     }\n *   })\n *
} else {\n *   return this.walk((child, i) => {\n *     if (child.type === 'decl' && child.prop === prop) {\n *       return
callback(child, i);\n *     }\n *   });\n * }\n *
}\n *
/**\n * Traverses the container's descendant nodes, calling
callback\n * for each rule node.\n *
If you pass a filter, iteration will only happen over rules\n * with
matching selectors.\n *
Like { @link Container#each }, this method is safe\n * to use if you are mutating
arrays during iteration.\n *
@param {string|RegExp} [selector] - string or regular expression\n *
to filter rules by selector\n *
@param {childIterator} callback
- iterator receives each node and index\n *\n * @return
{false|undefined} returns `false` if iteration was broke\n *\n * @example\n * const selectors = [];\n *
root.walkRules(rule => {\n *   selectors.push(rule.selector);\n * });\n *
console.log(`Your CSS uses
${selectors.length} selectors`);\n *
^ walkRules(selector, callback) {\n *   if (!callback) {\n *     callback =
selector;\n *
return this.walk((child, i) => {\n *     if (child.type === 'rule') {\n *       return callback(child, i);\n *
}\n *   });\n *   } else if (selector instanceof RegExp) {\n *     return this.walk((child, i) => {\n *     if (child.type ===
'rule' && selector.test(child.selector)) {\n *       return callback(child, i);\n *     }\n *   })\n *   } else {\n *     return
this.walk((child, i) => {\n *     if (child.type === 'rule' && child.selector === selector) {\n *       return
callback(child, i);\n *     }\n *   });\n * }\n *
}\n *
/**\n * Traverses the container's descendant nodes, calling
callback\n * for each at-rule

```

```

node.\n *\n * If you pass a filter, iteration will only happen over at-rules\n * that have matching names.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n *\n * @param {string|RegExp} [name] - string or regular expression\n * to filter at-rules by name\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkAtRules(rule => {\n * if ( isOld(rule.name) ) rule.remove();\n * });\n *\n * let first = false;\n * root.walkAtRules('charset', rule => {\n * if ( !first ) {\n * first = true;\n * } else {\n * rule.remove();\n * }\n * });\n *\n * walkAtRules(name, callback) {\n if (!callback) {\n callback = name;\n return this.walk((child, i) => {\n if (child.type === 'atrule') {\n return callback(child, i);\n }\n });\n } else if (name instanceof RegExp) {\n return this.walk((child, i) => {\n if (child.type === 'atrule' && name.test(child.name)) {\n return callback(child, i);\n }\n });\n } else {\n return this.walk((child, i) => {\n if (child.type === 'atrule' && child.name === name) {\n return callback(child, i);\n }\n });\n }\n }\n\n /**\n * Traverses the container's descendant nodes, calling callback\n * for each comment node.\n *\n * Like {@link Container#each}, this method is safe\n * to use if you are mutating arrays during iteration.\n *\n * @param {childIterator} callback - iterator receives each node and index\n *\n * @return {false|undefined} returns `false` if iteration was broke\n *\n * @example\n * root.walkComments(comment => {\n * comment.remove();\n * });\n *\n * walkComments(callback) {\n return this.walk((child, i) => {\n if (child.type === 'comment') {\n return callback(child, i);\n }\n });\n }\n\n /**\n * Inserts new nodes to the start of the container.\n *\n * @param {...(Node|object|string|Node[])} children - new nodes\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.append(decl1, decl2);\n *\n * root.append({ name: 'charset', params: '"UTF-8"' }); // at-rule\n * root.append({ selector: 'a' }); // rule\n * rule.append({ prop: 'color', value: 'black' }); // declaration\n * rule.append({ text: 'Comment' }) // comment\n *\n * root.append('a {');\n *\n * root.first.append('color: black; z-index: 1');\n *\n * append(...children) {\n children.forEach(child => {\n const nodes = this.normalize(child, this.last);\n nodes.forEach(node => this.nodes.push(node));\n });\n return this;\n }\n\n /**\n * Inserts new nodes to the end of the container.\n *\n * @param {...(Node|object|string|Node[])} children - new nodes\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * const decl1 = postcss.decl({ prop: 'color', value: 'black' });\n * const decl2 = postcss.decl({ prop: 'background-color', value: 'white' });\n * rule.prepend(decl1, decl2);\n *\n * root.append({ name: 'charset', params: '"UTF-8"' }); // at-rule\n * root.append({ selector: 'a' }); // rule\n * rule.append({ prop: 'color', value: 'black' }); // declaration\n * rule.append({ text: 'Comment' }) // comment\n *\n * root.append('a {');\n *\n * root.first.append('color: black; z-index: 1');\n *\n * prepend(...children) {\n children = children.reverse();\n children.forEach(child => {\n const nodes = this.normalize(child, this.first, 'prepend').reverse();\n nodes.forEach(node => this.nodes.unshift(node));\n for (const id in this.indexes) {\n this.indexes[id] = this.indexes[id] + nodes.length;\n }\n });\n return this;\n }\n\n cleanRaws(keepBetween) {\n super.cleanRaws(keepBetween);\n if (this.nodes) {\n this.nodes.forEach(node => node.cleanRaws(keepBetween));\n }\n }\n\n /**\n * Insert new node before old node within the container.\n *\n * @param {Node|number} exist - child or child's index.\n * @param {Node|object|string|Node[]} add - new node\n *\n * @return {Node} this node for methods chain\n *\n * @example\n * rule.insertBefore(decl, decl.clone({ prop: '-webkit-' + decl.prop }));\n *\n * insertBefore(exist, add) {\n exist = this.index(exist);\n const type = exist === 0 ? 'prepend' : false;\n const nodes = this.normalize(add, this.nodes[exist], type).reverse();\n nodes.forEach(node => this.nodes.splice(exist, 0, node));\n }\n\n let index;\n for (const id in this.indexes) {\n index = this.indexes[id];\n if (exist <= index) {\n this.indexes[id] = index + nodes.length;\n }\n }\n\n return this;\n }\n\n /**\n * Insert new node after old node within the container.\n *\n * @param {Node|number} exist - child or child's index\n * @param

```

```

{Node|object|string|Node[]} add - new node\n * \n * @return {Node} this node for methods chain\n * \n
insertAfter(exist, add) {\n exist = this.index(exist);\n\n const nodes = this.normalize(add,
this.nodes[exist]).reverse();\n nodes.forEach(node => this.nodes.splice(exist + 1, 0, node));\n\n let index;\n for
(const id in this.indexes) {\n index = this.indexes[id];\n if (exist < index) {\n this.indexes[id] = index +
nodes.length;\n }\n }\n\n return this;\n }\n\n remove(child) {\n if (typeof child !== 'undefined') {\n
warnOnce('Container#remove is deprecated. ' + 'Use
Container#removeChild');\n this.removeChild(child);\n } else {\n super.remove();\n }\n\n return this;\n
}\n\n /**\n * Removes node from the container and cleans the parent properties\n * from the node and its
children.\n * \n * @param {Node|number} child - child or child's index\n * \n * @return {Node} this node for
methods chain\n * \n * @example\n * rule.nodes.length //=> 5\n * rule.removeChild(decl);\n *
rule.nodes.length //=> 4\n * decl.parent //=> undefined\n * \n\n removeChild(child) {\n child =
this.index(child);\n this.nodes[child].parent = undefined;\n this.nodes.splice(child, 1);\n\n let index;\n for
(const id in this.indexes) {\n index = this.indexes[id];\n if (index >= child) {\n this.indexes[id] = index -
1;\n }\n }\n\n return this;\n }\n\n /**\n * Removes all children from the container\n * and cleans their
parent properties.\n * \n * @return {Node} this node for methods
chain\n * \n * @example\n * rule.removeAll();\n * rule.nodes.length //=> 0\n * \n\n removeAll() {\n
this.nodes.forEach(node => (node.parent = undefined));\n this.nodes = [];\n\n return this;\n }\n\n /**\n *
Passes all declaration values within the container that match pattern\n * through callback, replacing those values
with the returned result\n * of callback.\n * \n * This method is useful if you are using a custom unit or
function\n * and need to iterate through all values.\n * \n * @param {string|RegExp} pattern - replace
pattern\n * @param {object} opts - options to speed up the search\n * @param {string|string[]}
opts.props - an array of property names\n * @param {string} opts.fast - string that's used\n *
to narrow down values and speed up\n * the regexp search\n * @param
{function|string} callback
- string to replace pattern\n * or callback that returns a new\n *
value.\n * The callback will receive\n * the same arguments as
those\n * passed to a function parameter\n * of
`String#replace`.\n * \n * @return {Node} this node for methods chain\n * \n * @example\n *
root.replaceValues(/\\d+rem/, { fast: 'rem' }, string => {\n * return 15 * parseInt(string) + 'px';\n * });\n * \n\n
replaceValues(pattern, opts, callback) {\n if (!callback) {\n callback = opts;\n opts = {};\n }\n\n
this.walkDecls(decl => {\n if (opts.props && opts.props.indexOf(decl.prop) === -1) return;\n if (opts.fast &&
decl.value.indexOf(opts.fast) === -1) return;\n\n decl.value = decl.value.replace(pattern,
callback);\n });\n\n return this;\n }\n\n /**\n * Returns `true` if callback returns `true`\n * for all of the
container's children.\n * \n * @param {childCondition} condition - iterator returns true or false.\n * \n *
@return {boolean} is every child pass condition\n * \n * @example\n * const noPrefixes = rule.every(i =>
i.prop[0] !== '-');\n * \n\n every(condition) {\n return this.nodes.every(condition);\n }\n\n /**\n * Returns `true`
if callback returns `true` for (at least) one\n * of the container's children.\n * \n * @param {childCondition}
condition - iterator returns true or false.\n * \n * @return {boolean} is some child pass condition\n * \n *
@example\n * const hasPrefix = rule.some(i => i.prop[0] === '-');\n * \n\n some(condition) {\n return
this.nodes.some(condition);\n }\n\n /**\n * Returns a `child`'s index within the {@link Container#nodes} array.\n\n
*\n * @param {Node} child - child of the current container.\n\n
*\n * @return {number} child index\n * \n * @example\n * rule.index( rule.nodes[2] ) //=> 2\n * \n\n
index(child) {\n if (typeof child === 'number') {\n return child;\n } else {\n return
this.nodes.indexOf(child);\n }\n }\n\n /**\n * The container's first child.\n * \n * @type {Node}\n * \n *
@example\n * rule.first == rules.nodes[0];\n * \n\n get first() {\n if (!this.nodes) return undefined;\n return
this.nodes[0];\n }\n\n /**\n * The container's last child.\n * \n * @type {Node}\n * \n * @example\n *
rule.last == rule.nodes[rule.nodes.length - 1];\n * \n\n get last() {\n if (!this.nodes) return undefined;\n return
this.nodes[this.nodes.length - 1];\n }\n\n\n normalize(nodes, sample) {\n if (typeof nodes === 'string') {\n nodes

```



```

= cleanSource(parse(nodes).nodes);\n  } else if (!Array.isArray(nodes)) {\n    if (nodes.type === 'root') {\n      nodes = nodes.nodes;\n    } else if (nodes.type) {\n      nodes
= [nodes];\n    } else if (nodes.prop) {\n      if (typeof nodes.value === 'undefined') {\n        throw new
Error('Value field is missed in node creation');\n      } else if (typeof nodes.value !== 'string') {\n        nodes.value
= String(nodes.value);\n      }\n      nodes = [new Declaration(nodes)];\n    } else if (nodes.selector) {\n      nodes
= [new Rule(nodes)];\n    } else if (nodes.name) {\n      nodes = [new AtRule(nodes)];\n    } else if (nodes.text)
{\n      nodes = [new Comment(nodes)];\n    } else {\n      throw new Error('Unknown node type in node
creation');\n    }\n  }\n\n  const processed = nodes.map(i => {\n    if (typeof i.raws === 'undefined') i =
this.rebuild(i);\n    if (i.parent) i = i.clone();\n    if (typeof i.raws.before === 'undefined') {\n      if (sample &&
typeof sample.raws.before !== 'undefined') {\n        i.raws.before = sample.raws.before.replace(/^[\\s]/g, "");\n
      }\n    }\n    i.parent
= this;\n    return i;\n  });\n\n  return processed;\n}\n\nrebuild(node, parent) {\n  let fix;\n  if (node.type ===
'root') {\n    fix = new Root();\n  } else if (node.type === 'atrule') {\n    fix = new AtRule();\n  } else if
(node.type === 'rule') {\n    fix = new Rule();\n  } else if (node.type === 'decl') {\n    fix = new Declaration();\n
  } else if (node.type === 'comment') {\n    fix = new Comment();\n  }\n\n  for (const i in node) {\n    if (i ===
'nodes') {\n      fix.nodes = node.nodes.map(j => this.rebuild(j, fix));\n    } else if (i === 'parent' && parent) {\n
fix.parent = parent;\n    } else if (node.hasOwnProperty(i)) {\n      fix[i] = node[i];\n    }\n  }\n\n  return fix;\n
}\n\n  eachInside(callback) {\n    warnOnce('Container#eachInside is deprecated. ' + 'Use Container#walk
instead.);\n    return this.walk(callback);\n  }\n\n  eachDecl(prop, callback) {\n    warnOnce('Container#eachDecl is
deprecated. ' + 'Use
Container#walkDecls instead.);\n    return this.walkDecls(prop, callback);\n  }\n\n  eachRule(selector, callback) {\n
warnOnce('Container#eachRule is deprecated. ' + 'Use Container#walkRules instead.);\n    return
this.walkRules(selector, callback);\n  }\n\n  eachAtRule(name, callback) {\n    warnOnce('Container#eachAtRule is
deprecated. ' + 'Use Container#walkAtRules instead.);\n    return this.walkAtRules(name, callback);\n  }\n\n  eachComment(callback) {\n    warnOnce('Container#eachComment is deprecated. ' + 'Use
Container#walkComments instead.);\n    return this.walkComments(callback);\n  }\n\n  get semicolon() {\n    warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n    return this.raws.semicolon;\n  }\n\n  set
semicolon(val) {\n    warnOnce('Node#semicolon is deprecated. Use Node#raws.semicolon');\n
this.raws.semicolon = val;\n  }\n\n  get after() {\n    warnOnce('Node#after is deprecated. Use Node#raws.after');\n
return this.raws.after;\n  }\n\n  set after(val) {\n    warnOnce('Node#after is deprecated. Use Node#raws.after');\n    this.raws.after = val;\n  }\n\n  /**\n   * @memberof Container#\n   * @member {Node[]} nodes - an array containing the container's children\n
*\n   * @example\n   * const root = postcss.parse('a { color: black }');\n   * root.nodes.length // => 1\n   *
root.nodes[0].selector // => 'a'\n   * root.nodes[0].nodes[0].prop // => 'color'\n   */\n\n  export default
Container;\n  ,"/ @flow\n  import Container from './container';\n  import warnOnce from './warn-once';\n  /**\n   *
Represents an at-rule.\n   * If it's followed in the CSS by a { } block, this node will have\n   * a nodes property
representing its children.\n   * @extends Container\n   * @example\n   * const root = postcss.parse('@charset
"UTF-8"; @media print {}');\n   * const charset = root.first;\n   * charset.type // => 'atrule'\n   * charset.nodes // =>
undefined\n   * const media = root.last;\n   * media.nodes // => []\n   */\n\n  class
AtRule extends Container {\n    constructor(defaults) {\n      super(defaults);\n      this.type = 'atrule';\n    }\n\n    append(...children) {\n      if (!this.nodes) this.nodes = [];\n      return super.append(...children);\n    }\n\n    prepend(...children) {\n      if (!this.nodes) this.nodes = [];\n      return super.prepend(...children);\n    }\n\n    get
afterName() {\n      warnOnce('AtRule#afterName was deprecated. Use AtRule#raws.afterName');\n      return
this.raws.afterName;\n    }\n\n    set afterName(val) {\n      warnOnce('AtRule#afterName was deprecated. Use
AtRule#raws.afterName');\n      this.raws.afterName = val;\n    }\n\n    get _params() {\n      warnOnce('AtRule#_params
was deprecated. Use AtRule#raws.params');\n      return this.raws.params;\n    }\n\n    set _params(val) {\n
warnOnce('AtRule#_params was deprecated. Use AtRule#raws.params');\n      this.raws.params = val;\n    }\n  }\n  /**\n
   * @memberof AtRule#\n   * @member {string} name - the at-rule's name immediately follows the `@`\n   */

```

@example\n

```
* const root = postcss.parse('@media print {}');\n * media.name //=> 'media'\n * const media = root.first;\n *\n * @memberof AtRule#\n * @member {string} params - the at-rule's parameters, the values\n * that follow the at-rule's name but precede\n * any {} block\n *\n * @example\n *\n const root = postcss.parse('@media print, screen {}');\n * const media = root.first;\n * media.params //=> 'print,\n * screen'\n *\n * @memberof AtRule#\n * @member {object} raws - Information to generate byte-to-\n * byte equal\n * node string as it was in the origin input.\n *\n * Every parser saves its own\n * properties,\n * but the default CSS parser uses:\n *\n * * `before`: the space symbols before the node. It also\n * stores `*\n * and `_\n * symbols before the declaration (IE hack).\n * * `after`: the space symbols after the last\n * child of the node\n * to the end\n * of the node.\n * * `between`: the symbols between the property and value\n * for declarations, selector and `{`\n * for rules, or last parameter\n * and `{` for at-rules.\n * * `semicolon`: contains true if the last child has\n * an\n * (optional) semicolon.\n * * `afterName`: the space between the at-rule name and its parameters.\n *\n * PostCSS\n * cleans at-rule parameters from comments and extra spaces,\n * but it stores origin content in raws properties.\n *\n * As such, if you don't change a declaration's value,\n * PostCSS will use the raw value with comments.\n *\n *\n * @example\n * const root = postcss.parse(' @media\\nprint {\\n}')\n * root.first.first.raws //=> { before: ' ',\n * // between: '\\n',\n * // afterName: '\\n',\n * // after: '\\n'}\n *\n * @flow\n * Contains helpers for safely splitting lists of CSS values,\n * preserving parentheses\n * and quotes.\n *\n * @example\n * const list = postcss.list;\n * @namespace list\n * /nconst list = {\n * split(string, separators, last) {\n *   const array = [];\n *   let current = '';\n *   let split = false;\n *   let func = 0;\n *   let\n * quote = false;\n *   let escape = false;\n *   for (let i = 0; i < string.length; i++) {\n *     const letter = string[i];\n *     if\n * (quote) {\n *       if (escape) {\n *         escape = false;\n *       } else if (letter === '\\\\') {\n *         escape = true;\n *       }\n *     } else if (letter === quote) {\n *       quote = false;\n *     } else if (letter === '\"' || letter === '\\\"') {\n *       quote\n * = letter;\n *     } else if (letter === '(') {\n *       func += 1;\n *     } else if (letter === ')') {\n *       if (func > 0) func -= 1;\n *     } else if (func === 0) {\n *       if (separators.indexOf(letter) !== -1) split = true;\n *     }\n *     if (split) {\n *       if\n * (current !== '') array.push(current.trim());\n *       current =\n * '';\n *       split = false;\n *     } else {\n *       current += letter;\n *     }\n *   }\n *   if (last || current !== '')\n * array.push(current.trim());\n *   return array;\n * },\n * /n\n * Safely splits space-separated values (such as those for\n * `background`,\n * `border-radius`, and other shorthand properties).\n *\n * @param {string} string - space-\n * separated values\n *\n * @return {string[]} splitted values\n *\n * @example\n * postcss.list.space('1px\n * calc(10% + 1px)') //=> ['1px', 'calc(10% + 1px)']\n *\n * @flow\n * space(string) {\n *   const spaces = [' ', '\\n', '\\t'];\n *   return\n * list.split(string, spaces);\n * },\n * /n\n * Safely splits comma-separated values (such as those for `transition-`\n * and `background`\n * properties).\n *\n * @param {string} string - comma-separated values\n *\n * @return\n * {string[]} splitted values\n *\n * @example\n * postcss.list.comma('black, linear-gradient(white, black)')\n * //=> ['black', 'linear-gradient(white, black)']\n *\n * @flow\n * comma(string) {\n *   const comma = ',';\n *   return list.split(string, [comma], true);\n * },\n * /n\n * /nexport default\n * list;\n * /n\n * @flow\n * import './at-rule'; // break cyclical dependency deadlock - #87\n * import Container from\n * './container';\n * import warnOnce from './warn-once';\n * import list from './list';\n * /n\n * Represents a CSS rule: a\n * selector followed by a declaration block.\n *\n * @extends Container\n *\n * @example\n * const root =\n * postcss.parse('a {}');\n * const rule = root.first;\n * rule.type //=> 'rule'\n * rule.toString() //=> 'a {}'\n *\n * /n\n * class\n * Rule extends Container {\n *   constructor(defaults) {\n *     super(defaults);\n *     this.type = 'rule';\n *     if (!this.nodes)\n * this.nodes = [];\n *   }\n * /n\n * An array containing the rule's individual selectors.\n * Groups of selectors are\n * split at commas.\n *\n * @type {string[]}\n *\n * @example\n * const root = postcss.parse('a, b {}');\n * const rule = root.first;\n * rule.selector //=>\n * 'a, b'\n * rule.selectors //=> ['a', 'b']\n *\n * rule.selectors //=> 'a, strong'\n *\n * rule.selector //=> 'a, strong'\n *\n * /n\n * /n\n * get selectors() {\n *   return list.comma(this.selector);\n * }\n * /n\n * set selectors(values) {\n *   const match = this.selector ?\n * this.selector.match(/,\\s*/) : null;\n *   const sep = match ? match[0] : `,$${this.raw('between', 'beforeOpen')}`;\n * }
```

```

this.selector = values.join(sep);\n }\n\n get_selector() {\n  warnOnce('Rule#_selector is deprecated. Use
Rule#raws.selector');\n  return this.raws.selector;\n }\n\n set_selector(val) {\n  warnOnce('Rule#_selector is
deprecated. Use Rule#raws.selector');\n  this.raws.selector = val;\n }\n\n /**\n  * @memberof Rule#\n  *
@member {string} selector - the rule's full selector represented\n  * as a string\n  *\n  *
@example\n  * const root = postcss.parse('a, b { }');\n  * const rule = root.first;\n  * rule.selector //=> 'a, b'\n
*/\n\n /**\n  * @member {object} raws - Information to generate byte-to-byte equal\n  * node string as it was in
the origin input.\n  *\n  * Every parser saves its own properties,\n  * but the default CSS parser uses:\n  *\n  *
`before`: the space symbols before the node. It also stores `*\n  * and ` _ ` symbols before the declaration (IE
hack).\n  * `after`: the space symbols after the last child of the node\n  * to the end of the node.\n  *
`between`: the symbols between the property and value\n  * for declarations, selector and `{` for rules, or last
parameter\n  * and `{` for at-rules.\n  * `semicolon`: contains true if the last child has\n  * an (optional)
semicolon.\n  *\n  * PostCSS cleans selectors from comments and extra spaces,\n  * but it stores origin content in
raws properties.\n  * As such, if you don't change a declaration's value,\n  * PostCSS will use the raw value with
comments.\n  *\n  * @example\n  * const root
= postcss.parse('a {\n  color:black\n}')\n  * root.first.first.raws //=> { before: ' ', between: ' ', after: '\n' }\n
*/\n\n\nexport default Rule;\n", "// @flow\n/**\n * Represents a plugin's warning. It can be created using { @link
Node#warn}.\n *\n * @example\n * if ( decl.important ) {\n *   decl.warn(result, 'Avoid !important', { word:
'important' });\n * }\n *\n * @class Warning {\n *   /**\n *    * @param {string} text - warning message\n *    * @param
{Object} [opts] - warning options\n *    * @param {Node} opts.node - CSS node that caused the warning\n *
@param {string} opts.word - word in CSS source that caused the warning\n *    * @param {number} opts.index -
index in CSS node string that caused\n * the warning\n *    * @param {string} opts.plugin - name
of the plugin that created\n * this warning. { @link Result#warn } fills\n *
this property automatically.\n *   *\n *   constructor(text,\n *     opts = {}) {\n *     /**\n *      * @member {string} - Type to filter warnings from\n *      * { @link
Result#messages}. Always equal\n *      * to `warning`.\n *     *\n *     @example\n *     const
nonWarning = result.messages.filter(i => i.type !== 'warning')\n *     *\n *     this.type = 'warning';\n *     /**\n *
@member {string} - The warning message.\n *     *\n *     @example\n *     warning.text //=> 'Try to avoid
!important'\n *     *\n *     this.text = text;\n *     if (opts.node && opts.node.source) {\n *       const pos =
opts.node.positionBy(opts);\n *       /**\n *        * @member {number} - Line in the input file\n *        * with
this warning's source\n *        * @example\n *        * warning.line //=> 5\n *        *\n *        this.line = pos.line;\n
*/\n *     *\n *     @member {number} - Column in the input file\n *     * with this warning's source.\n *     *\n *
@example\n *     * warning.column //=> 6\n *     *\n *     this.column = pos.column;\n *   }\n *   for (const opt in opts) this[opt] = opts[opt];\n * }\n\n /**\n *
Returns a warning position and message.\n * *\n * @example\n * warning.toString() //=> 'postcss-lint:a.css:10:14:
Avoid !important'\n * *\n * @return {string} warning position and message\n * *\n * toString() {\n *   if (this.node)
{\n *     return this.node.error(this.text, {\n *       plugin: this.plugin,\n *       index: this.index,\n *       word: this.word,\n *
}).message;\n *   } else if (this.plugin) {\n *     return `${this.plugin}: ${this.text}`;\n *   } else {\n *     return this.text;\n *
}\n * }\n\n /**\n * @memberof Warning#\n * @member {string} plugin - The name of the plugin that created\n *
it will fill this property automatically.\n * * this warning. When you call { @link
Node#warn}\n * *\n * @example\n * warning.plugin //=> 'postcss-important'\n * *\n\n /**\n * @memberof
Warning#\n * @member {Node} node - Contains the CSS node that caused the warning.\n * *\n * @example\n *
warning.node.toString() //=> 'color: white !important'\n * *\n\nexport default Warning;\n", "// @flow\nimport
Warning from './warning';\n\n /**\n * @typedef {object} Message\n * @property {string} type - message type\n *
@property {string} plugin - source PostCSS plugin name\n *\n\n /**\n * Provides the result of the PostCSS
transformations.\n * *\n * A Result instance is returned by { @link LazyResult#then}\n * or { @link Root#toResult}
methods.\n * *\n * @example\n * postcss([cssnext]).process(css).then(function (result) {\n *

```



```

= false;\n  this.processed = false;\n\n  let root;\n  if (typeof css === 'object' && css.type === 'root') {\n    root =
css;\n  } else if (css instanceof LazyResult || css instanceof Result) {\n    root = css.root;\n    if (css.map) {\n
if (typeof opts.map === 'undefined') opts.map = {};\n    if (!opts.map.inline) opts.map.inline = false;\n
opts.map.prev = css.map;\n    }\n  } else {\n    let parser = parse;\n    if (opts.syntax) parser =
opts.syntax.parse;\n    if (opts.parser) parser = opts.parser;\n    if (parser.parse) parser = parser.parse;\n\n    try
{\n      root = parser(css, opts);\n    } catch (error) {\n      this.error = error;\n    }\n  }\n\n  this.result = new
Result(processor, root, opts);\n }\n\n /**\n  * Returns a {@link Processor} instance, which will be used\n  * for
CSS transformations.\n  * @type {Processor}\n  */\n  get processor() {\n    return this.result.processor;\n  }\n\n
/**\n  * Options from
the {@link Processor#process} call.\n  * @type {processOptions}\n  */\n  get opts() {\n    return this.result.opts;\n
}\n\n /**\n  * Processes input CSS through synchronous plugins, converts `Root`\n  * to a CSS string and returns
{@link Result#css}.\n  * This property will only work with synchronous plugins.\n  * If the processor
contains any asynchronous plugins\n  * it will throw an error. This is why this method is only\n  * for debug
purpose, you should always use {@link LazyResult#then}.\n  * @type {string}\n  * @see Result#css\n  */\n
  get css() {\n    return this.stringify().css;\n  }\n\n /**\n  * An alias for the `css` property. Use it with syntaxes\n  *
that generate non-CSS output.\n  * This property will only work with synchronous plugins.\n  * If the
processor contains any asynchronous plugins\n  * it will throw an error. This is why this method is only\n  * for
debug purpose, you should always use {@link LazyResult#then}.\n  * @type {string}\n  * @see Result#content\n  */\n
  get content() {\n    return this.stringify().content;\n  }\n\n /**\n  * Processes input CSS through synchronous plugins\n  *
and returns {@link Result#map}.\n  * This property will only work with synchronous plugins.\n  * If the processor contains any asynchronous plugins\n  *
it will throw an error. This is why this method is only\n  * for debug purpose, you should always use {@link
LazyResult#then}.\n  * @type {SourceMapGenerator}\n  * @see Result#map\n  */\n  get map() {\n    return
this.stringify().map;\n  }\n\n /**\n  * Processes input CSS through synchronous plugins\n  * and returns {@link
Result#root}.\n  * This property will only work with synchronous plugins. If the processor\n  * contains any
asynchronous plugins it will throw an error.\n  * This is why this method is only for debug purpose,\n  * you
should always use {@link LazyResult#then}.\n  * @type {Root}\n  * @see Result#root\n  */\n  get root() {\n
return this.sync().root;\n }\n\n /**\n  * Processes input CSS through synchronous plugins\n  * and returns
{@link Result#messages}.\n  * This property will only work with synchronous plugins. If the
processor\n  * contains any asynchronous plugins it will throw an error.\n  * This is why this method is only
for debug purpose,\n  * you should always use {@link LazyResult#then}.\n  * @type {Message[]}\n  * @see
Result#messages\n  */\n  get messages() {\n    return this.sync().messages;\n }\n\n /**\n  * Processes input CSS
through synchronous plugins\n  * and calls {@link Result#warnings}.\n  * @return {Warning[]} warnings
from plugins\n  */\n  warnings() {\n    return this.sync().warnings();\n }\n\n /**\n  * Alias for the {@link
LazyResult#css} property.\n  * @example\n  * lazy + " === lazy.css;\n  * @return {string} output
CSS\n  */\n  toString() {\n    return this.css;\n }\n\n /**\n  *
Processes input CSS through synchronous and asynchronous plugins\n  * and calls `onFulfilled` with a Result
instance. If a plugin throws\n  * an error, the `onRejected` callback will be executed.\n  * It implements
standard Promise API.\n  * @param {onFulfilled} onFulfilled - callback will be executed\n  *
when all plugins will finish work\n  * @param {onRejected} onRejected - callback will be executed on any
error\n  * @return {Promise} Promise API to make queue\n  * @example\n  *
postcss([cssnext]).process(css).then(result => {\n  *   console.log(result.css);\n  * });\n  */\n  then(onFulfilled,
onRejected) {\n    return this.async().then(onFulfilled, onRejected);\n }\n\n /**\n  * Processes input CSS through
synchronous and asynchronous plugins\n  * and calls onRejected for each error thrown in any plugin.\n  * It
implements standard Promise API.\n  * @param {onRejected} onRejected - callback will
be executed on any error\n  * @return {Promise} Promise API to make queue\n  * @example\n  *
postcss([cssnext]).process(css).then(result => {\n  *   console.log(result.css);\n  * }).catch(error => {\n  *
  console.error(error);\n  * });\n  */\n  catch(onRejected) {\n    return this.async().catch(onRejected);\n }\n\n

```

```

handleError(error, plugin) {\n  try {\n    this.error = error;\n    if (error.name === 'CssSyntaxError' &&
!error.plugin) {\n      error.plugin = plugin.postcssPlugin;\n      error.setMessage();\n    } else if
(plugin.postcssVersion) {\n      const pluginName = plugin.postcssPlugin;\n      const pluginVer =
plugin.postcssVersion;\n      const runtimeVer = this.result.processor.version;\n      const a = pluginVer.split('.')\n      const b = runtimeVer.split('.')\n      if (a[0] !== b[0] || parseInt(a[1]) > parseInt(b[1])) {\n        warnOnce(\n
`${'Your current PostCSS version ' + 'is '}${runtimeVer}, but ${pluginName}
` +\n
`uses ${pluginVer}. Perhaps this is ` +\n
`the source of the error below.`\n
); \n
}\n
} catch (err) {\n  if (console && console.error) console.error(err);\n
}\n
}\n
\n
asyncTick(resolve, reject)
{\n  if (this.plugin >= this.processor.plugins.length) {\n    this.processed = true;\n    return resolve();\n
}\n
\n
try {\n  const plugin = this.processor.plugins[this.plugin];\n  const promise = this.run(plugin);\n  this.plugin
+= 1;\n
\n  if (isPromise(promise)) {\n    promise\n      .then(() => {\n        this.asyncTick(resolve, reject);\n
      })\n      .catch(error => {\n        this.handleError(error, plugin);\n        this.processed = true;\n
reject(error);\n      });\n
    } else {\n    this.asyncTick(resolve, reject);\n
  } catch (error) {\n    this.processed = true;\n    reject(error);\n
  }\n
}\n
\n
\n
async() {\n  if
(this.processed) {\n    return new Promise((resolve, reject) => {\n      if (this.error) {\n        reject(this.error);\n
      } else {\n        resolve(this.stringify());\n
      });\n
    }\n
  }\n
  if (this.processing) {\n    return
this.processing;\n
  }\n
  this.processing = new Promise((resolve, reject) => {\n    if (this.error) return
reject(this.error);\n    this.plugin = 0;\n    this.asyncTick(resolve, reject);\n
  }).then(() => {\n    this.processed =
true;\n    return this.stringify();\n
  });\n
  return this.processing;\n
}\n
\n
\n
sync() {\n  if (this.processed) return
this.result;\n  this.processed = true;\n
\n  if (this.processing) {\n    throw new Error('Use process(css).then(cb) to
work with async plugins');\n
  }\n
  if (this.error) throw this.error;\n
\n
  this.result.processor.plugins.forEach(plugin => {\n    const promise = this.run(plugin);\n    if (isPromise(promise))
{\n      throw new Error('Use process(css).then(cb)
to work with async plugins');\n
    }\n
  });\n
  return this.result;\n
}\n
\n
run(plugin) {\n  this.result.lastPlugin =
plugin;\n
\n  try {\n    return plugin(this.result.root, this.result);\n
  } catch (error) {\n    this.handleError(error,
plugin);\n    throw error;\n
  }\n
}\n
\n
stringify() {\n  if (this.stringified) return this.result;\n  this.stringified =
true;\n
\n  this.sync();\n
\n  const opts = this.result.opts;\n  let str = stringify;\n  if (opts.syntax) str =
opts.syntax.stringify;\n  if (opts.stringifier) str = opts.stringifier;\n  if (str.stringify) str = str.stringify;\n
\n  let
result = '';\n  str(this.root, i => {\n    result += i;\n
  });\n  this.result.css = result;\n
\n  return this.result;\n
}\n
}\n
\n
\n
export default LazyResult;\n
", "// @flow\nimport LazyResult from './lazy-result';\n\n/**\n * @callback
builder\n * @param {string} part - part of generated CSS connected to this node\n * @param {Node} node
- AST node\n * @param {"start"|"end"} [type] - node's part type\n * ^\n\n/**\n * @callback parser\n * ^\n *
@param {string|toString} css - string with input CSS or any object\n * with toString() method,
like a Buffer\n * @param {processOptions} [opts] - options with only `from` and `map` keys\n * ^\n * @return
{Root} PostCSS AST\n * ^\n\n/**\n * @callback stringifier\n * ^\n * @param {Node} node - start node for
stringifying. Usually {@link Root}.\n * @param {builder} builder - function to concatenate CSS from node's parts\n
*\n * or generate string and source map\n * ^\n\n/**\n * @return {void}\n * ^\n\n/**\n * @typedef {object}
syntax\n * @property {parser} parse - function to generate AST by string\n * @property {stringifier} stringify
- function to generate string by AST\n * ^\n\n/**\n * @typedef {object} toString\n * @property {function}
toString\n * ^\n\n/**\n * @callback pluginFunction\n * @param {Root} root - parsed
input CSS\n * @param {Result} result - result to set warnings or check other plugins\n * ^\n\n/**\n * @typedef
{object} Plugin\n * @property {function} postcss - PostCSS plugin function\n * ^\n\n/**\n * @typedef {object}
processOptions\n * @property {string} from - the path of the CSS source file.\n *
\n
You should always set `from`,\n * because it is used in source map\n *
generation and syntax error messages.\n * @property {string} to - the path where you'll put the output\n *
\n
CSS file. You should always set `to`\n * to generate correct source
maps.\n * @property {parser} parser - function to generate AST by string\n * @property {stringifier}
stringifier - class to generate string by AST\n * @property {syntax} syntax - object with `parse` and

```

```

`stringify`\n
* @property {object} map - source map options\n * @property {boolean} map.inline - does
source map should\n * be embedded in the output\n *
CSS as a base64-encoded\n * comment\n * @property
{string|object|false|function} map.prev - source map content\n * from a previous\n *
processing step\n * (for example, Sass).\n *
PostCSS will try to find\n * previous map\n *
automatically, so you\n * could disable it by\n *
`false` value.\n * @property {boolean} map.sourcesContent - does PostCSS should set\n *
the origin content to map\n * @property {string|false} map.annotation - does
PostCSS should set\n * annotation comment to map\n * @property {string}
map.from - override `from` in map's\n * `sources`\n * ^\n\n/**\n *
Contains plugins to process CSS. Create one `Processor` instance,\n * initialize its plugins, and then use that
instance on numerous CSS files.\n * \n * @example\n * const processor = postcss([autoprefixer, precss]);\n *
processor.process(css1).then(result => console.log(result.css));\n * processor.process(css2).then(result =>
console.log(result.css));\n * \n * class Processor {\n * /**\n * @param {Array.<Plugin|pluginFunction>} Processor
plugins - PostCSS\n * plugins.
See {@link Processor#use} for plugin format.\n * \n * constructor(plugins = []) {\n * /**\n * @member {string}
- Current PostCSS version.\n * \n * @example\n * if ( result.processor.version.split('.')[0] !== '5' ) {\n *
throw new Error("This plugin works only with PostCSS 5");\n * }\n * \n * this.version = '5.2.0';\n * /**\n *
@member {pluginFunction[]} - Plugins added to this processor.\n * \n * @example\n * const processor =
postcss([autoprefixer, precss]);\n * processor.plugins.length // => 2\n * \n * this.plugins =
this.normalize(plugins);\n * }\n * \n * /**\n * Adds a plugin to be used as a CSS processor.\n * \n * PostCSS plugin
can be in 4 formats:\n * * A plugin created by {@link postcss.plugin} method.\n * * A function. PostCSS will
pass the function a {@link Root}\n * as the first argument and current {@link Result} instance\n * as the
second.\n * * An object with a `postcss` method. PostCSS will use that
method\n * as described in #2.\n * * Another {@link Processor} instance. PostCSS will copy plugins\n *
from that instance into this one.\n * \n * Plugins can also be added by passing them as arguments when creating\n *
a `postcss` instance (see [ `postcss(plugins)` ]).\n * \n * Asynchronous plugins should return a `Promise`
instance.\n * \n * @param {Plugin|pluginFunction|Processor} plugin - PostCSS plugin\n *
or {@link Processor}\n * with plugins\n * \n * @example\n * const
processor = postcss()\n * .use(autoprefixer)\n * .use(precss);\n * \n * @return {Processes} current processor
to make methods chain\n * \n * use(plugin) {\n * this.plugins = this.plugins.concat(this.normalize([plugin]));\n *
return this;\n * }\n * \n * /**\n * Parses source CSS and returns a {@link LazyResult} Promise proxy.\n * Because
some plugins can be asynchronous it
doesn't make\n * any transformations. Transformations will be applied\n * in the {@link LazyResult}
methods.\n * \n * @param {string|toString|Result} css - String with input CSS or\n * any
object with a `toString`\n * method, like a Buffer.\n *
Optionally, send a {@link Result}\n * instance and the processor will\n *
take the {@link Root} from it.\n * \n * @param {processOptions} [opts] - options\n * \n * @return
{LazyResult} Promise proxy\n * \n * @example\n * processor.process(css, { from: 'a.css', to: 'a.out.css' })\n *
.then(result => {\n * console.log(result.css);\n * });\n * \n * process(css, opts = {}) {\n * return new
LazyResult(this, css, opts);\n * }\n * \n * normalize(plugins) {\n * let normalized = [];\n * plugins.forEach(i => {\n *
if
(i.postcss)
i = i.postcss;\n * \n * if (typeof i === 'object' && Array.isArray(i.plugins)) {\n * normalized =
normalized.concat(i.plugins);\n * } else if (typeof i === 'function') {\n * normalized.push(i);\n * } else {\n *
throw new Error(`$ {i} is not a PostCSS plugin`);\n * }\n * });\n * return normalized;\n * }\n * \n * \n * export default
Processor;\n * \n * // @flow\n * import './rule'; // break cyclical dependency deadlock - #87\n * import Container from

```

```

./container';\nimport LazyResult from './lazy-result';\nimport Processor from './processor';\nimport warnOnce from
 './warn-once';\n\n/**\n * Represents a CSS file and contains all its parsed nodes.\n *\n * @extends Container\n *\n * @example\n * const root = postcss.parse('a{color:black} b{z-index:2}');\n * root.type //=> 'root'\n *
 root.nodes.length //=> 2\n *\n\nclass Root extends Container {\n  constructor(defaults) {\n    super(defaults);\n
  this.type = 'root';\n  if (!this.nodes) this.nodes = [];\n  }\n  removeChild(child)
  {\n    child = this.index(child);\n    if (child === 0 && this.nodes.length > 1) {\n      this.nodes[1].raws.before =
  this.nodes[child].raws.before;\n    }\n    return super.removeChild(child);\n  }\n  normalize(child, sample, type)
  {\n    const nodes = super.normalize(child);\n    if (sample) {\n      if (type === 'prepend') {\n        if
  (this.nodes.length > 1) {\n          sample.raws.before = this.nodes[1].raws.before;\n        } else {\n          delete
  sample.raws.before;\n        }\n      } else if (this.first !== sample) {\n        nodes.forEach(node => {\n
  node.raws.before = sample.raws.before;\n        });\n      }\n    }\n    return nodes;\n  }\n}\n\n/**\n * Returns a
  {@link Result} instance representing the root's CSS.\n *\n * @param {processOptions} [opts] - options with
  only `to` and `map` keys\n *\n * @return {Result} result with current root's CSS\n *\n * @example\n * const
  root1 = postcss.parse(css1, { from: 'a.css' });\n
  * const root2 = postcss.parse(css2, { from: 'b.css' });\n * root1.append(root2);\n * const result = root1.toResult({
  to: 'all.css', map: true });\n *\n * toResult(opts = {}) {\n  const lazy = new LazyResult(new Processor(), this,
  opts);\n  return lazy.stringify();\n }\n\n remove(child) {\n  warnOnce('Root#remove is deprecated. Use
  Root#removeChild');\n  this.removeChild(child);\n }\n\n prevMap() {\n  warnOnce('Root#prevMap is
  deprecated. Use Root#source.input.map');\n  return this.source.input.map;\n }\n}\n\n/**\n * @memberof Root#\n
 * @member {object} raws - Information to generate byte-to-byte equal\n *
  node string as it was in
  the origin input.\n *\n * Every parser saves its own properties,\n * but the default CSS parser uses:\n *\n *
  `after`: the space symbols after the last child to the end of file.\n * * `semicolon`: is the last child has an (optional)
  semicolon.\n *\n * @example\n * postcss.parse('a {}').raws
  //=> { after: '\n' }\n * postcss.parse('a {}').raws //=> { after: " }\n *\n}\n\n\nexport default Root;\n\n", "//
 @flow\nimport './root'; // break cyclical dependency deadlock - #87\nimport CssSyntaxError from './css-syntax-
  error';\n\nimport PreviousMap from './previous-map';\n\nlet sequence = 0;\n\n/**\n * @typedef {object}
  filePosition\n * @property {string} file - path to file\n * @property {number} line - source line in file\n *
  @property {number} column - source column in file\n *\n}\n\n/**\n * Represents the source CSS.\n *\n *
  @example\n * const root = postcss.parse(css, { from: file });\n * const input = root.source.input;\n *\n\nclass Input
  {\n  /**\n * @param {string} css - input CSS source\n * @param {object} [opts] - {@link Processor#process}
  options\n *\n * constructor(css, opts = {}) {\n  /**\n * @member {string} - input CSS source\n *\n *
  @example\n * const input = postcss.parse('a{}', { from: file }).input;\n * input.css
  //=> "a{}";\n *\n * this.css = css.toString();\n * if (this.css[0] === "\uFEFF" || this.css[0] === "\uFFFE") {\n
  this.css = this.css.slice(1);\n * }\n * if (opts.from) {\n * if (/^\w+:\w+\/\w+\.test(opts.from)) {\n *
  /**\n *
  @member {string} - The absolute path to the CSS source file\n *
  defined with the `from` option.\n
  *\n * @example\n * const root = postcss.parse(css, { from: 'a.css' });\n * root.source.input.file
  //=> '/home/ai/a.css'\n *\n * this.file = opts.from;\n * } else {\n * this.file = path.resolve(opts.from);\n
  }\n * }\n * }\n * let map = new PreviousMap(this.css, opts);\n * if ( map.text ) {\n *
  /**\n *
  @member {PreviousMap} - The input source map passed from\n *
  a compilation step before
  PostCSS\n *
  (for example, from Sass compiler).\n
  *\n * @example\n * root.source.input.map.consumer().sources //=> ['a.sass']\n *!\n
  this.map = map;\n * let file = map.consumer().file;\n * if ( !this.file && file ) this.file =
  this.map.resolve(file);\n * }\n * }\n * if (!this.file) {\n * sequence += 1;\n * /**\n *
  @member {string} -
  The unique ID of the CSS source. It will be\n *
  created if `from` option is not provided\n *
  (because PostCSS does not know the file path).\n *
  @example\n * const root =
  postcss.parse(css);\n * root.source.input.file //=> undefined\n * root.source.input.id //=> "<input css 1>"\n
  *\n * this.id = `<input css ${sequence}>`; }\n * }\n * if (this.map) this.map.file = this.from;\n * }\n * }\n
  error(message, line, column, opts = {}) {\n  let result;\n  const origin = this.origin(line, column);\n  if (origin) {\n

```



```

    result =
    new CssSyntaxError(\n    message,\n    origin.line,\n    origin.column,\n    origin.source,\n    origin.file,\n    opts.plugin\n  );\n } else {\n    result = new CssSyntaxError(message, line, column, this.css,
this.file, opts.plugin);\n  }\n\n  result.input = { line, column, source: this.css };\n  if (this.file) result.input.file =
this.file;\n\n  return result;\n }\n\n  /**\n   * Reads the input source map and returns a symbol position\n   * in the
input source (e.g., in a Sass file that was compiled\n   * to CSS before being passed to PostCSS).\n   *\n   * @param
{number} line - line in input CSS\n   * @param {number} column - column in input CSS\n   *\n   * @return
{filePosition} position in input source\n   *\n   * @example\n   * root.source.input.origin(1, 1) // => { file: 'a.css',
line: 3, column: 1 }\n   *\n   * ^\n   * origin(line, column) {\n   *   if (!this.map) return false;\n   *   const consumer =
this.map.consumer();\n   *   const from = consumer.originalPositionFor({
line, column });\n   *   if (!from.source) return false;\n   *\n   *   const result = {\n   *     file: this.map.resolve(from.source),\n
line: from.line,\n   *     column: from.column,\n   *   };\n   *\n   *   const source = consumer.sourceContentFor(from.source);\n
if (source) result.source = source;\n   *\n   *   return result;\n   * }\n\n   * mapResolve(file) {\n   *   if (/^\w+:\|\/\|\.test(file)) {\n
return file;\n   *   } else {\n   *     return path.resolve(this.map.consumer().sourceRoot || '.', file);\n   *   }\n   * }\n\n   * **\n   *
The CSS source identifier. Contains { @link Input#file } if the user\n   * set the `from` option, or { @link Input#id } if
they did not.\n   * @type {string}\n   *\n   * @example\n   * const root = postcss.parse(css, { from: 'a.css' });\n   *
root.source.input.from // => "/home/ai/a.css"\n   *\n   * const root = postcss.parse(css);\n   * root.source.input.from
// => "<input css 1>"\n   *\n   * get from() {\n   *   return this.file || this.id;\n   * }\n   * }\n\n   * next export default Input;\n   * //
@flow\n\n   * import tokenize from './postcss/tokenize';\n   * import Comment from './postcss/comment';\n   * import Parser
from './postcss/parser';\n\n   * next export default class SafeParser extends Parser {\n   *   tokenize() {\n   *     this.tokens =
tokenize(this.input, { ignoreErrors: true });\n   *   }\n\n   *   comment(token) {\n   *     const node = new Comment();\n
this.init(node, token[2], token[3]);\n   *     node.source.end = { line: token[4], column: token[5] };\n   *\n   *     let text =
token[1].slice(2);\n   *     if (text.slice(-2) === '*/') text = text.slice(0, -2);\n   *\n   *     if (/^\s*$/ .test(text)) {\n   *       node.text =
";\n   *       node.raws.left = text;\n   *       node.raws.right = ";\n   *     } else {\n   *       const match =
text.match(/^(\\s*)([^\s]*[^\s])(\\s*)$/);\n   *       node.text = match[2];\n   *       node.raws.left = match[1];\n
node.raws.right = match[3];\n   *     }\n   *   }\n\n   *   unclosedBracket() {\n   *     unknownWord(start) {\n   *       const buffer =
this.tokens.slice(start, this.pos + 1);\n   *       this.spaces += buffer.map(i => i[1]).join("");\n   *     }\n   *\n   *     unexpectedClose() {\n   *       this.current.raws.after += ' ';\n   *     }\n   *\n   *     doubleColon() {\n   *     }\n   *\n   *     unnamedAttrule(node)
{\n   *       node.name = ";\n   *     }\n   *\n   *     precheckMissedSemicolon(tokens) {\n   *       const colon = this.colon(tokens);\n   *       if
(colon === false) return;\n   *\n   *       let split;\n   *       for (split = colon - 1; split >= 0; split--) {\n   *         if (tokens[split][0] ===
'word') break;\n   *       }\n   *       for (split = 1; split >= 0; split--) {\n   *         if (tokens[split][0] !== 'space') {\n   *           split += 1;\n
break;\n   *         }\n   *       }\n   *       const other = tokens.splice(split, tokens.length - split);\n   *       this.decl(other);\n   *     }\n   *\n   *
checkMissedSemicolon() {\n   *     }\n   *\n   *     endFile() {\n   *       if (this.current.nodes && this.current.nodes.length) {\n   *
this.current.raws.semicolon = this.semicolon;\n   *       }\n   *       this.current.raws.after = (this.current.raws.after || "") +
this.spaces;\n   *\n   *       while (this.current.parent) {\n   *         this.current = this.current.parent;\n   *         this.current.raws.after =
";\n   *       }\n   *     }\n   *   }\n\n   *   @flow\n\n   *   import Input from './postcss/input';\n   *   import SafeParser from './safe-parser';\n\n   *   next export default function
safeParse(css, opts) {\n   *     const input = new Input(css, opts);\n   *     const parser = new SafeParser(input);\n   *     parser.tokenize();\n
parser.loop();\n   *     return parser.root;\n   * }\n   * // @flow\n\n   * /* eslint-disable import/no-unresolved
*/\n\n   * import transformDeclPairs from 'css-to-react-native';\n   * import generateComponentId from
'./utils/generateComponentId';\n   * import type { RuleSet, StyleSheet } from './types';\n   * import flatten from
'./utils/flatten';\n\n   * // $FlowFixMe\n   * import parse from './vendor/postcss-safe-parser/parse';\n\n   * let generated =
{};\n\n   * next export const resetStyleCache = () => {\n   *   generated = {};\n   * }\n\n   * /* InlineStyle takes arbitrary CSS and
generates a flat object\n   * ^\n   * next export default (styleSheet: StyleSheet) => {\n   *   class InlineStyle {\n   *     rules: RuleSet;\n   *
constructor(rules: RuleSet) {\n   *       this.rules = rules;\n   *     }\n   *\n   *     generateStyleObject(executionContext:
Object) {\n   *       const flatCSS = flatten(this.rules, executionContext).join("");\n   *\n   *       const hash =
generateComponentId(flatCSS);\n   *       if (!generated[hash]) {\n   *         const root = parse(flatCSS);\n   *         const
declPairs = [];\n   *         root.each(node => {\n   *           if (node.type === 'decl') {\n   *             declPairs.push([node.prop,

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node.value]);\n      } else if (process.env.NODE_ENV !== 'production' && node.type !== 'comment') {\n
/* eslint-disable no-console */\n      console.warn(`Node of type ${node.type} not supported as an inline
style`);\n      }\n    });\n    // RN currently does not support differing values for the corner radii of Image\n
// components (but does for View). It is almost impossible to tell whether we'll have\n    // support, so we'll just
disable multiple values here.\n    // https://github.com/styled-components/css-to-react-native/issues/11\n    const
styleObject = transformDeclPairs(declPairs, [\n
  'borderRadius',\n  'borderWidth',\n  'borderColor',\n  'borderStyle',\n  ]);\n    const styles =
styleSheet.create({\n      generated: styleObject,\n    });\n    generated[hash] = styles.generated;\n  }\n
return generated[hash];\n  }\n  }\n  return InlineStyle;\n};\n"/** eslint-disable */\n*/\n\nmixin-deep;
https://github.com/jonschlinkert/mixin-deep\n\nInlined such that it will be consistently transpiled to an IE-
compatible syntax.\n\nThe MIT License (MIT)\n\nCopyright (c) 2014-present, Jon Schlinkert.\n\nPermission is
hereby granted, free of charge, to any person obtaining a copy\nof this software and associated documentation files
(the \"Software\"), to deal\nin the Software without restriction, including without limitation the rights\n
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell\ncopies of the Software, and to permit persons to
whom the Software is\nfurnished to do
so, subject to the following conditions:\n\nThe above copyright notice and this permission notice shall be included
in\nall copies or substantial portions of the Software.\n\nTHE SOFTWARE IS PROVIDED \"AS IS\",
WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\nIMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY,\nFITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE\nAUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER\nLIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM,\nOUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN\nTHE SOFTWARE.\n*/\n\nconst isObject = val => {\n  return (\n    typeof
val === 'function' || (typeof val === 'object' && val !== null && !Array.isArray(val))\n  );\n};\n\nconst isValidKey
= key => {\n  return key !== '__proto__' && key !== 'constructor' && key !== 'prototype';\n};\n\nfunction
mixin(target, val, key) {\n  const obj = target[key];\n  if
(isObject(val) && isObject(obj)) {\n    mixinDeep(obj, val);\n  } else {\n    target[key] = val;\n  }\n}\n\nexport
default function mixinDeep(target, ...rest) {\n  for (const obj of rest) {\n    if (isObject(obj)) {\n      for (const key in
obj) {\n        if (isValidKey(key)) {\n          mixin(target, obj[key], key);\n        }\n      }\n    }\n  }\n
return target;\n}\n\n"/** @flow\nimport { EMPTY_OBJECT } from './empties';\n\nexport type Props = {\n  theme?:
any,\n};\n\nexport default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) => {\n
return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;\n};\n\n"/**
@flow\nimport type { IStyledComponent } from './types';\n\nexport default function isTag(target:
$PropertyType<IStyledComponent, 'target'>): boolean %checks {\n  return (\n    typeof target === 'string' &&\n
(process.env.NODE_ENV !== 'production'\n    ? target.charAt(0) === target.charAt(0).toLowerCase()\n    :
true)\n  );\n}\n\n"/** @flow\nimport type { IStyledComponent } from './types';\nimport getComponentName from
'./getComponentName';\nimport isTag from './isTag';\n\nexport default function generateDisplayName(\n  target:
$PropertyType<IStyledComponent, 'target'>): string {\n  return isTag(target) ? `styled.${target}` :
`Styled(${getComponentName(target)})`;\n}\n\n"/** @flow\nimport React, { useContext, useMemo, type Element,
type Context } from 'react';\nimport throwStyledError from './utils/error';\nimport isFunction from
'./utils/isFunction';\n\nexport type Theme = { [key: string]: mixed }; \n\nexport type ThemeArgument = Theme |
((outerTheme?: Theme) => Theme);\n\nexport type Props = {\n  children?: Element<any>,\n  theme:
ThemeArgument,\n};\n\nexport const ThemeContext: Context<Theme | void> = React.createContext();\n\nexport
const ThemeConsumer = ThemeContext.Consumer;\n\nfunction mergeTheme(theme: ThemeArgument,
outerTheme?: Theme): Theme {\n  if (!theme) {\n    return throwStyledError(14);\n  }\n  if (isFunction(theme)) {\n
const mergedTheme = theme(outerTheme);\n  if (\n
process.env.NODE_ENV !== 'production' &&\n    (mergedTheme === null || Array.isArray(mergedTheme)) ||

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typeof mergedTheme !== 'object')\n ) {\n  return throwStyledError(7);\n }\n\n return mergedTheme;\n }\n\n\n if (Array.isArray(theme) || typeof theme !== 'object') {\n  return throwStyledError(8);\n }\n\n\n return outerTheme ?\n { ...outerTheme, ...theme } : theme;\n}\n\n/**\n * Provide a theme to an entire react component tree via context\n *\nexport default function ThemeProvider(props: Props) {\n  const outerTheme = useContext(ThemeContext);\n  const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [\n    props.theme,\n    outerTheme,\n  ]);\n  if (!props.children) {\n    return null;\n  }\n  return <ThemeContext.Provider\n    value={themeContext}>{props.children}</ThemeContext.Provider>;\n}\n\n", "// @flow\nimport React, {\n  createElement, Component } from 'react';\nimport\n  hoist from 'hoist-non-react-statics';\nimport merge from '../utils/mixinDeep';\nimport determineTheme from\n  '../utils/determineTheme';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';\nimport\n  generateDisplayName from '../utils/generateDisplayName';\nimport isFunction from '../utils/isFunction';\nimport\n  isTag from '../utils/isTag';\nimport isStyledComponent from '../utils/isStyledComponent';\nimport {  
  ThemeConsumer } from './ThemeProvider';\nimport type { Theme } from './ThemeProvider';\nimport type { Attrs,  
  RuleSet, Target } from './types';\n\n// NOTE: no hooks available for react-native yet;\n// if the user makes use of  
ThemeProvider or StyleSheetManager things will break.\n\n// Validator defaults to true if not in HTML/DOM  
env\nconst validAttr = () => true;\n\nclass StyledNativeComponent extends Component<*, *> {\n  root:  
  ?Object;\n  attrs = {};\n  render() {\n    return (\n      <ThemeConsumer>\n        {(theme?: Theme) => {\n          const {\n            $as: transientAsProp,\n            as: renderAs,\n            forwardedComponent,\n            forwardedAs,\n            forwardedRef,\n            testID,\n            style = [],\n            ...props\n          } = this.props;\n          const {\n            defaultProps, target, shouldForwardProp } = forwardedComponent;\n            const elementToBeRendered =\n              this.attrs.$as || this.attrs.as || transientAsProp || renderAs || target;\n            const generatedStyles =\n              this.generateAndInjectStyles(\n                determineTheme(this.props, theme, defaultProps) || EMPTY_OBJECT,\n                this.props\n              );\n            const isTargetTag = isTag(elementToBeRendered);\n            const computedProps =\n              this.attrs !== props ? { ...props, ...this.attrs } : props;\n            const propFilterFn = shouldForwardProp || (isTargetTag  
&& validAttr);\n            const propsForElement = {};\n            let key;\n            for (key in computedProps) {\n              if (key[0] === '$' || key  
                === 'as') continue;\n                else if (key === 'forwardedAs') {\n                  propsForElement.as = props[key];\n                }\n            }\n            else if (!propFilterFn || propFilterFn(key, validAttr)) {\n              // Don't pass through filtered tags through to  
              native elements\n              propsForElement[key] = computedProps[key];\n            }\n          }\n          propsForElement.style = typeof style === 'function' ?\n            (state) => {\n              return  
                [generatedStyles].concat(style(state))\n            } : [generatedStyles].concat(style);\n          propsForElement.testID = testID || propsForElement.testID;\n          if (forwardedRef) propsForElement.ref =  
            forwardedRef;\n          if (forwardedAs) propsForElement.as = forwardedAs;\n          return  
            createElement(elementToBeRendered, propsForElement);\n          }}\n        </ThemeConsumer>\n      );\n    }\n\n  buildExecutionContext(theme: ?Object, props: Object, attrs: Attrs) {\n    const context = { ...props, theme };\n    if (!attrs.length) return context;\n    this.attrs = {};\n    attrs.forEach(attrDef => {\n      let resolvedAttrDef =  
        attrDef;\n      let attr;\n      let key;\n      if (isFunction(resolvedAttrDef)) {\n        resolvedAttrDef =  
          resolvedAttrDef(context);\n      }\n      /* eslint-disable guard-for-in */\n      for (key in resolvedAttrDef) {\n        attr = resolvedAttrDef[key];\n        this.attrs[key] = attr;\n        context[key] = attr;\n      }\n      /* eslint-enable */\n    });\n    return context;\n  }\n\n  generateAndInjectStyles(theme: any, props: any) {\n    const { inlineStyle } =  
      props.forwardedComponent;\n    const executionContext = this.buildExecutionContext(\n      theme,\n      props,\n      props.forwardedComponent.attrs\n    );\n    return inlineStyle.generateStyleObject(executionContext);\n  }\n\n  setNativeProps(nativeProps: Object) {\n    if (this.root !== undefined) {\n      // $FlowFixMe\n      this.root.setNativeProps(nativeProps);\n    }\n  }\n\n  else if (process.env.NODE_ENV !== 'production') {\n    // eslint-disable-next-line no-console\n    console.warn(\n      'setNativeProps was called on a Styled Component wrapping a stateless functional  
      component.\n    );\n  }\n}\n\n\nexport default (InlineStyle: Function) => {\n  const

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createStyledNativeComponent = (target: Target, options: Object, rules: RuleSet) => {\n  const {\n    attrs =
EMPTY_ARRAY,\n    displayName = generateDisplayName(target),\n    ParentComponent =
StyledNativeComponent,\n  } = options;\n\n  const isClass = !isTag(target);\n  const isTargetStyledComp =
isStyledComponent(target);\n\n  // $FlowFixMe\n  const WrappedStyledNativeComponent =
React.forwardRef((props, ref) => (\n    <ParentComponent\n      {...props}\n    forwardedComponent={WrappedStyledNativeComponent}\n    forwardedRef={ref}\n  />\n  ));\n\n  const
finalAttrs =\n    // $FlowFixMe\n    isTargetStyledComp && target.attrs\n    ?
Array.prototype.concat(target.attrs,
  attrs).filter(Boolean)\n    : attrs;\n\n  // eslint-disable-next-line prefer-destructuring\n  let shouldForwardProp =
options.shouldForwardProp;\n\n  // $FlowFixMe\n  if (isTargetStyledComp && target.shouldForwardProp) {\n
if (shouldForwardProp) {\n    // compose nested shouldForwardProp calls\n    shouldForwardProp = (prop,
filterFn, elementToBeCreated) =>\n      // $FlowFixMe\n      target.shouldForwardProp(prop, filterFn,
elementToBeCreated) &&\n        options.shouldForwardProp(prop, filterFn, elementToBeCreated);\n  } else {\n
// eslint-disable-next-line prefer-destructuring\n    shouldForwardProp = target.shouldForwardProp;\n  }\n}\n\n  /**\n   * forwardRef creates a new interim component, which we'll take advantage of\n   * instead of
extending ParentComponent to create _another_ interim class\n   */\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.attrs = finalAttrs;\n\n  WrappedStyledNativeComponent.displayName
= displayName;\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.shouldForwardProp =
shouldForwardProp;\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.inlineStyle = new InlineStyle(\n
// $FlowFixMe\n  isTargetStyledComp ? target.inlineStyle.rules.concat(rules) : rules\n  );\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.styledComponentId = 'StyledNativeComponent';\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.target = isTargetStyledComp\n    ? // $FlowFixMe\n    target.target\n    :
target;\n\n  // $FlowFixMe\n  WrappedStyledNativeComponent.withComponent = function withComponent(tag:
Target) {\n    const { displayName: _, componentId: __, ...optionsToCopy } = options;\n    const newOptions =
{\n      ...optionsToCopy,\n      attrs: finalAttrs,\n      ParentComponent,\n    };\n\n    return
createStyledNativeComponent(tag, newOptions, rules);\n  };\n\n  // $FlowFixMe\n  Object.defineProperty(WrappedStyledNativeComponent,
'defaultProps', {\n    get() {\n      return this._foldedDefaultProps;\n    },\n\n    set(obj) {\n      // $FlowFixMe\n      this._foldedDefaultProps = isTargetStyledComp ? merge({}, target.defaultProps, obj) : obj;\n    },\n  });\n\n  if (isClass) {\n    hoist(WrappedStyledNativeComponent, (target: any), {\n      // all SC-specific things should not
be hoisted\n      attrs: true,\n      displayName: true,\n      shouldForwardProp: true,\n      inlineStyle: true,\n      styledComponentId: true,\n      target: true,\n      withComponent: true,\n    });\n  }\n\n  return
WrappedStyledNativeComponent;\n};\n\nreturn createStyledNativeComponent;\n};\n", "\n\n@flow\nimport type {
Interpolation } from './types';\n\nexport default (\n  strings: Array<string>,\n  interpolations:
Array<Interpolation>): Array<Interpolation> => {\n  const result = [strings[0]];\n\n  for (let i = 0, len =
interpolations.length; i < len;\n    i += 1) {\n    result.push(interpolations[i], strings[i + 1]);\n  }\n\n  return result;\n};\n", "\n\n@flow\nimport interleave
from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport { EMPTY_ARRAY } from
'./utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from './utils/flatten';\nimport type {
Interpolation, RuleSet, Styles } from './types';\n\n/**\n * Used when flattening object styles to determine if we
should\n * expand an array of styles.\n */\nconst addTag = arg => {\n  if (Array.isArray(arg)) {\n    // eslint-disable-
next-line no-param-reassign\n    arg.isCss = true;\n  }\n  return arg;\n};\n\nexport default function css(styles: Styles,
...interpolations: Array<Interpolation>): RuleSet {\n  if (isFunction(styles) || isPlainObject(styles)) {\n    //
$FlowFixMe\n    return addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n  }\n\n  if
(interpolations.length === 0 && styles.length === 1 && typeof styles[0]
=== 'string') {\n    // $FlowFixMe\n    return styles;\n  }\n\n  // $FlowFixMe\n  return
addTag(flatten(interleave(styles, interpolations)));\n}\n", "\n\n@flow\nimport { isValidElementType } from 'react-
is';\nimport css from './css';\nimport throwError from './utils/error';\nimport { EMPTY_OBJECT } from

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'./utils/empties';\n\nimport type { Target } from './types';\n\nexport default function constructWithOptions(\n  componentConstructor: Function,\n  tag: Target,\n  options: Object = EMPTY_OBJECT\n) {\n  if\n    (!isValidElementType(tag)) {\n    return throwStyledError(1, String(tag));\n  }\n  /* This is callable directly as a\n  template function */\n  // $FlowFixMe: Not typed to avoid destructuring arguments\n  const templateFunction =\n    (...args) => componentConstructor(tag, options, css(...args));\n  /* If config methods are called, wrap up a new\n  template function and merge options */\n  templateFunction.withConfig = config =>\n    constructWithOptions(componentConstructor,\n      tag, { ...options, ...config });\n  /* Modify/inject new props at runtime */\n  templateFunction.attrs = attrs =>\n    constructWithOptions(componentConstructor, tag, {\n      ...options,\n      attrs: Array.prototype.concat(options.attrs,\n        attrs).filter(Boolean),\n    });\n  return templateFunction;\n}\n\n\"// @flow\n\nimport React, { useContext, type\n  AbstractComponent } from 'react';\nimport hoistStatics from 'hoist-non-react-statics';\nimport { ThemeContext }\n  from './models/ThemeProvider';\nimport determineTheme from './utils/determineTheme';\nimport\n  getComponentName from './utils/getComponentName';\n\n// NOTE: this would be the correct signature:\n// export\n  default <Config: { theme?: any }, Instance>(\n// Component: AbstractComponent<Config, Instance>\n// ):\n  AbstractComponent<$Diff<Config, { theme?: any }> & { theme?: any }, Instance>\n// but the old build system\n  tooling doesn't support the syntax\n\nexport default (Component: AbstractComponent<*, *>) => {\n  //\n  $FlowFixMe\n\n  This should be React.forwardRef<Config, Instance>\n  const WithTheme = React.forwardRef((props, ref) => {\n    const theme = useContext(ThemeContext);\n    // $FlowFixMe defaultProps isn't declared so it can be inferrable\n    const { defaultProps } = Component;\n    const themeProp = determineTheme(props, theme, defaultProps);\n    if\n      (process.env.NODE_ENV !== 'production' && themeProp === undefined) {\n      // eslint-disable-next-line no-\n      console\n      console.warn(\n        `[withTheme] You are not using a ThemeProvider nor passing a theme prop or a\n        theme in defaultProps in component class \"${getComponentName(\n          Component\n        )}\"`\n      );\n    }\n    return <Component {...props} theme={themeProp} ref={ref} />;\n  });\n  hoistStatics(WithTheme,\n    Component);\n  WithTheme.displayName = `WithTheme(${getComponentName(Component)})`;\n  return\n    WithTheme;\n};\n\n\"// @flow\n\nimport { useContext } from 'react';\nimport { ThemeContext } from\n  './models/ThemeProvider';\n\nconst\n  useTheme = () => useContext(ThemeContext);\n\nexport default useTheme;\n\n\"// @flow\n\n/* eslint-disable\n  import/no-unresolved */\nimport _InlineStyle from './models/InlineStyle';\nimport _StyledNativeComponent from\n  './models/StyledNativeComponent';\nimport css from './constructors/css';\nimport constructWithOptions from\n  './constructors/constructWithOptions';\nimport ThemeProvider, { ThemeConsumer, ThemeContext } from\n  './models/ThemeProvider';\nimport withTheme from './hoc/withTheme';\nimport useTheme from\n  './hooks/useTheme';\nimport isStyledComponent from './utils/isStyledComponent';\nimport type { Target } from\n  './types';\n\nconst reactNative = require('react-native');\nconst InlineStyle =\n  _InlineStyle(reactNative.StyleSheet);\nconst StyledNativeComponent =\n  _StyledNativeComponent(InlineStyle);\nconst styled = (tag: Target) =>\n  constructWithOptions(StyledNativeComponent, tag);\n\n/* React native lazy-requires each of these modules for\n  some reason, so let's\n  * assume it's for a good reason and not eagerly load them all */\nconst aliases = `ActivityIndicator\n  ActivityIndicatorIOS ART Button DatePickerIOS DrawerLayoutAndroid\n  Image ImageBackground ImageEditor\n  ImageStore KeyboardAvoidingView ListView MapView Modal NavigatorIOS\n  Picker PickerIOS\n  ProgressBarAndroid ProgressViewIOS ScrollView SegmentedControlIOS Slider\n  SliderIOS SnapshotViewIOS\n  Switch RecyclerViewBackedScrollView RefreshControl SafeAreaView StatusBar\n  SwipeableListView\n  SwitchAndroid SwitchIOS TabBarIOS Text TextInput ToastAndroid ToolbarAndroid\n  Touchable\n  TouchableHighlight TouchableNativeFeedback TouchableOpacity TouchableWithoutFeedback\n  View\n  ViewPagerAndroid WebView FlatList SectionList VirtualizedList Pressable`;\n\n/* Define a getter for each alias\n  which simply gets the reactNative component\n  * and passes it to styled */\naliases.split(/\\s+/m).forEach(alias =>\n  Object.defineProperty(styled, alias, {\n    enumerable: true,\n    configurable: false,\n    get() {\n

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return styled(reactNative[alias]);\n  },\n  )\n);\n\n\nexport { css, isStyledComponent, ThemeProvider,
ThemeConsumer, ThemeContext, withTheme, useTheme };
\n\nexport default
styled;\n\n], "names": ["AD_REPLACER_R", "charsLength", "getAlphabeticChar", "code", "String", "fromCharCode", "g
enerateAlphabeticName", "name", "x", "Math", "abs", "replace", "SEED", "phash", "h", "i", "length", "charCodeAt", "hash"
,"str", "getComponentName", "target", "process", "env", "NODE_ENV", "displayName", "isFunction", "test", "isStateless
Function", "prototype", "isReactComponent", "toString", "Object", "call", "typeof", "isStyledComponent", "styledComp
onentId", "SC_ATTR", "REACT_APP_SC_ATTR", "SC_ATTR_ACTIVE", "SC_ATTR_VERSION", "SC_VERSION", "SC_VERSION", "SC_VERSION", "SC_VERSION", "SPLITTER", "IS_BROWSER", "window", "DISABLE_SPEEDY", "Boolean", "SC_DISABLE_
SPEEDY", "REACT_APP_SC_DISABLE_SPEEDY", "EMPTY_ARRAY", "freeze", "EMPTY_OBJECT", "ERRORS
", "errorMap", "format", "a", "b", "c", "len", "push", "forEach", "d", "throwStyledComponentsError", "interpolations", "Erro
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components.native.cjs.js.map

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 */
mixin-deep; https://github.com/jonschlinkert/mixin-deep
Inlined such that it will be consistently transpiled to an IE-compatible syntax.
```

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@flow\nimport type { Interpolation } from '../types'\n\nexport default (\n  strings: Array<string>,\n  interpolations: Array<Interpolation>\n): Array<Interpolation> => {\n  const result = [strings[0]]\n  for (let i = 0, len = interpolations.length; i
```

```
< len; i += 1) {\n    result.push(interpolations[i], strings[i + 1])\n  }\n  return result\n}\n\n// @flow\nimport { typeOf } from 'react-is'\n\nexport default (x: any): boolean => {\n  x !== null && typeOf x === 'object' && (x.toString ? x.toString() : Object.prototype.toString.call(x)) === '[object Object]' && !typeOf(x)\n}\n\n// @flow\nexport const EMPTY_ARRAY = Object.freeze([])\nexport const EMPTY_OBJECT = Object.freeze({})\n\n// @flow\nexport default function isFunction(test: any): boolean %checks {\n  return typeOf test === 'function'\n}\n\n// @flow\nimport type { IStyledComponent } from '../types'\n\nexport default function getComponentName(\n  target: $PropertyType<IStyledComponent, 'target'\>\n): string {\n  return (\n    (process.env.NODE_ENV !== 'production' ? typeOf target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  )\n}\n\n// @flow\nexport default function isStyledComponent(target:
```

```
Object.freeze({});\n\n// @flow\nexport default function isFunction(test: any): boolean %checks {\n  return typeOf test === 'function'\n}\n\n// @flow\nimport type { IStyledComponent } from '../types'\n\nexport default function getComponentName(\n  target: $PropertyType<IStyledComponent, 'target'\>\n): string {\n  return (\n    (process.env.NODE_ENV !== 'production' ? typeOf target === 'string' && target : false) ||\n    // $FlowFixMe\n    target.displayName ||\n    // $FlowFixMe\n    target.name ||\n    'Component'\n  )\n}\n\n// @flow\nexport default function isStyledComponent(target:
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```



```

(process.env.REACT_APP_SC_ATTR || process.env.SC_ATTR) || \n 'data-styled';\n\nexport const
SC_ATTR_ACTIVE = 'active';\nexport const SC_ATTR_VERSION = 'data-styled-version';\nexport const
SC_VERSION = __VERSION__;\nexport const SPLITTER = '/*!sc*/\n';\n\nexport const IS_BROWSER = typeof
window !== 'undefined' && 'HTMLElement' in window;\n\nexport const DISABLE_SPEEDY = Boolean(\n
typeof process !== 'undefined' &&
typeof process.env !== 'undefined'\n ? typeof process.env.REACT_APP_SC_DISABLE_SPEEDY !== 'undefined'
&&\n process.env.REACT_APP_SC_DISABLE_SPEEDY !== "\n ?
process.env.REACT_APP_SC_DISABLE_SPEEDY
=== 'false'\n ? false\n : process.env.REACT_APP_SC_DISABLE_SPEEDY\n : typeof
process.env.SC_DISABLE_SPEEDY !== 'undefined' && process.env.SC_DISABLE_SPEEDY !== "\n ?
process.env.SC_DISABLE_SPEEDY === 'false'\n ? false\n : process.env.SC_DISABLE_SPEEDY\n :
process.env.NODE_ENV !== 'production'\n : false\n);\n\n// Shared empty execution context when generating
static styles\nexport const STATIC_EXECUTION_CONTEXT = {};\n\n// @flow\nimport errorMap from
'./errors';\n\nconst ERRORS = process.env.NODE_ENV !== 'production' ? errorMap : {};\n\n/**\n * super basic
version of sprintf\n */\nfunction format(...args) {\n let a = args[0];\n const b = [];\n\n for (let c = 1, len =
args.length; c < len; c += 1) {\n b.push(args[c]);\n }\n\n b.forEach(d => {\n a = a.replace(/%[a-z]/, d);\n
});\n\n return a;\n}\n\n/**\n * Create an error file out of errors.md for development and a simple web link to the full
errors\n
* in production mode.\n */\nexport default function throwStyledComponentsError(\n code: string | number,\n
...interpolations: Array<any>\n) {\n if (process.env.NODE_ENV === 'production') {\n throw new Error(\n `An
error occurred. See https://git.io/JUIaE#${code} for more information.${\n interpolations.length > 0 ? ` Args:
${interpolations.join(', ')} : "\n }`);\n } else {\n throw new Error(format(ERRORS[code],
...interpolations).trim());\n }\n}\n\n,"export default {\n1": "Cannot create styled-component for component:
%s.\n\n","2": "Can't collect styles once you've consumed a `ServerStyleSheet`'s styles! `ServerStyleSheet` is a
one off instance for each server-side render cycle.\n\n- Are you trying to reuse it across renders?\n- Are you
accidentally calling collectStyles twice?\n\n","3": "Streaming SSR is only supported in a Node.js environment;
Please do not try to call this method in the browser.\n\n","4": "The `StyleSheetManager`
expects a valid target or sheet prop!\n\n- Does this error occur on the client and is your target falsy?\n- Does this
error occur on the server and is the sheet falsy?\n\n","5": "The clone method cannot be used on the client!\n\n-
Are you running in a client-like environment on the server?\n- Are you trying to run SSR on the
client?\n\n","6": "Trying to insert a new style tag, but the given Node is unmounted!\n\n- Are you using a
custom target that isn't mounted?\n- Does your document not have a valid head element?\n- Have you accidentally
removed a style tag manually?\n\n","7": "ThemeProvider: Please return an object from your `theme` prop
function, e.g.\n\n`js\ntheme={() => ({})`\n\n","8": "ThemeProvider: Please make your `theme`
prop an object.\n\n","9": "Missing document `<head>\n\n","10": "Cannot find a StyleSheet instance. Usually
this happens if there are multiple copies of styled-components loaded at once. Check
out this issue for how to troubleshoot and fix the common cases where this situation can happen:
https://github.com/styled-components/styled-components/issues/1941#issuecomment-
417862021\n\n","11": " _This error was replaced with a dev-time warning, it will be deleted for v4 final.
[createGlobalStyle] received children which will not be rendered. Please use the component without passing
children elements.\n\n","12": "It seems you are interpolating a keyframe declaration (%s) into an untagged
string. This was supported in styled-components v3, but is not longer supported in v4 as keyframes are now injected
on-demand. Please wrap your string in the css` helper which ensures the styles are injected correctly. See
https://www.styled-components.com/docs/api#css\n\n","13": "%s is not a styled component and cannot be
referred to via component selector. See https://www.styled-components.com/docs/advanced#referring-to-other-
components for more details.\n\n","14": "ThemeProvider:
`theme` prop is required.\n\n","15": "A stylis plugin has been supplied that is not named. We need a name
for each plugin to be able to prevent styling collisions between different stylis configurations within the same app.

```

Before you pass your plugin to `<StyleSheetManager stylisPlugins={[]}>`, please make sure each plugin is uniquely-named, e.g. `Object.defineProperty(importedPlugin, 'name', { value: 'some-unique-name' });`

Reached the limit of how many styled components may be created at group %s. You may only create up to 1,073,741,824 components. If you're creating components dynamically, for instance in your render method then you may be running into this limitation.

17: CSSStyleSheet could not be found on HTMLStyleElement.

Has styled-components' style tag been unmounted or altered by another script?

```

@flow
import type { GroupedTag, Tag } from './types';
import { SPLITTER } from './constants';
import throwError from './utils/error';

/** Create a GroupedTag with an underlying Tag implementation */
export const makeGroupedTag = (tag: Tag): GroupedTag => {
  return new DefaultGroupedTag(tag);
};

const BASE_SIZE = 1 << 9;
class DefaultGroupedTag implements GroupedTag {
  groupSizes: Uint32Array;
  length: number;
  tag: Tag;
  constructor(tag: Tag) {
    this.groupSizes = new Uint32Array(BASE_SIZE);
    this.length = BASE_SIZE;
    this.tag = tag;
  }
  indexOfGroup(group: number): number {
    let index = 0;
    for (let i = 0; i < group; i++) {
      index += this.groupSizes[i];
    }
    return index;
  }
  insertRules(group: number, rules: string[]): void {
    if (group >= this.groupSizes.length) {
      const oldBuffer = this.groupSizes;
      const oldSize = oldBuffer.length;
      let newSize = oldSize;
      while (group >= newSize) {
        newSize <<= 1;
        if (newSize < 0) {
          throwError(16, `${group}`);
        }
        this.groupSizes = new Uint32Array(newSize);
        this.groupSizes.set(oldBuffer);
        this.length = newSize;
        for (let i = oldSize; i < newSize; i++) {
          this.groupSizes[i] = 0;
        }
        let ruleIndex = this.indexOfGroup(group + 1);
        for (let i = 0, l = rules.length; i < l; i++) {
          if (this.tag.insertRule(ruleIndex, rules[i])) {
            this.groupSizes[group]++;
            ruleIndex++;
          }
        }
        clearGroup(group: number): void {
          if (group < this.length) {
            const length = this.groupSizes[group];
            const startIndex = this.indexOfGroup(group);
            const endIndex = startIndex + length;
            this.groupSizes[group] = 0;
            for (let i = startIndex; i < endIndex; i++) {
              this.tag.deleteRule(startIndex);
            }
          }
        }
        getGroup(group: number): string {
          let css = "";
          if (group >= this.length || this.groupSizes[group] === 0) {
            return css;
          }
          const length = this.groupSizes[group];
          const startIndex = this.indexOfGroup(group);
          const endIndex = startIndex + length;
          for (let i = startIndex; i < endIndex; i++) {
            css += `${this.tag.getRule(i)}${SPLITTER}`;
          }
          return css;
        }
      }
      @flow
      import throwError from './utils/error';
      const MAX_SMI = 1 << 31 - 1;
      let groupIDRegister: Map<string, number> = new Map();
      let reverseRegister: Map<number, string> = new Map();
      let nextFreeGroup = 1;
      export const resetGroupIds = () => {
        groupIDRegister = new Map();
        reverseRegister = new Map();
        nextFreeGroup = 1;
      };
      export const getGroupForId = (id: string): number => {
        if (groupIDRegister.has(id)) {
          return groupIDRegister.get(id);
        }
        while (reverseRegister.has(nextFreeGroup)) {
          nextFreeGroup++;
        }
        const group = nextFreeGroup++;
        if (!process.env.NODE_ENV || 'production' && ((group | 0) < 0 || group > MAX_SMI)) {
          throwError(16, `${group}`);
        }
        groupIDRegister.set(id, group);
        reverseRegister.set(group, id);
        return group;
      };
      export const getIdForGroup = (group: number): void | string => {
        return reverseRegister.get(group);
      };
      export const setGroupForId = (id: string, group: number) => {
        if (group >= nextFreeGroup) {
          nextFreeGroup = group + 1;
        }
        groupIDRegister.set(id, group);
        reverseRegister.set(group, id);
      };
      @flow
      import { SPLITTER, SC_ATTR, SC_ATTR_ACTIVE, SC_ATTR_VERSION, SC_VERSION } from './constants';
      import { getIdForGroup, setGroupForId } from './GroupIDAllocator';
      import type { Sheet } from './types';
      const SELECTOR = `style[${SC_ATTR}][${SC_ATTR_VERSION}=${SC_VERSION}]`;
      const MARKER_RE = new RegExp(`^${SC_ATTR}\\.g(\\d+)\\[id="(\\w\\d+)"\\].*?`);
      export const outputSheet = (sheet: Sheet) => {
        const tag = sheet.getTag();
        const { length } = tag;
        let css = "";
        for (let group = 0; group < length; group++) {
          const id = getIdForGroup(group);
          if (id === undefined) continue;
          const names = sheet.names.get(id);
          const rules = tag.getGroup(group);
          if (!names || !rules || !names.size) continue;
          const selector = `${SC_ATTR}.g${group}[id="${id}"]`;
          let content = "";
          if (names !== undefined) {

```





```

(this.names.has(id)) {\n  (this.names.get(id): any).clear();\n  }\n }\n\n /** Clears all rules for a given group ID
*\n clearRules(id: string) {\n  this.getTag().clearGroup(getGroupForId(id));\n
  this.clearNames(id);\n  }\n\n /** Clears the entire tag which deletes all rules but not its names *\n clearTag() {\n
  // NOTE: This does not clear the names, since it's only used during SSR\n  // so that we can continuously output
only new rules\n  this.tag = undefined;\n  }\n\n /** Outputs the current sheet as a CSS string with markers for SSR
*\n toString(): string {\n  return outputSheet(this);\n  }\n}\n", "// @flow\n/* eslint-disable no-bitwise *\n\nconst
AD_REPLACER_R = /(a)(d)/gi;\n\n/* This is the \"capacity\" of our alphabet i.e. 2x26 for all letters plus their
capitalised\n * counterparts *\nconst charsLength = 52;\n\n/* start at 75 for 'a' until 'z' (25) and then start at 65 for
capitalised letters *\nconst getAlphabeticChar = (code: number): string =>\n String.fromCharCode(code + (code >
25 ? 39 : 97));\n\n/* input a number, usually a hash and convert it to base-52 *\nexport default function
generateAlphabeticName(code: number): string {\n  let name
= \";\n  let x;\n\n /* get a char and divide by alphabet-length *\n  for (x = Math.abs(code); x > charsLength; x = (x /
charsLength) | 0) {\n    name = getAlphabeticChar(x % charsLength) + name;\n  }\n\n  return (getAlphabeticChar(x
% charsLength) + name).replace(AD_REPLACER_R, '$1-$2');\n}\n", "// @flow\n\n/* eslint-disable *\n\nexport const
SEED = 5381;\n\n// When we have separate strings it's useful to run a progressive\n// version of djb2 where we
pretend that we're still looping over\n// the same string\nexport const phash = (h: number, x: string): number => {\n
let i = x.length;\n\n while (i) {\n   h = (h * 33) ^ x.charCodeAt(--i);\n  }\n\n return h;\n}\n\n// This is a djb2
hashing function\nexport const hash = (x: string): number => {\n  return phash(SEED, x);\n}\n", "// @flow\n\nimport
isFunction from './isFunction';\nimport isStyledComponent from './isStyledComponent';\nimport type { RuleSet }
from './types';\n\nexport default function isStaticRules(rules: RuleSet): boolean
{\n  for (let i = 0; i < rules.length; i += 1) {\n    const rule = rules[i];\n\n    if (isFunction(rule) &&
!isStyledComponent(rule)) {\n      // functions are allowed to be static if they're just being\n      // used to get the
classname of a nested styled component\n      return false;\n    }\n  }\n\n  return true;\n}\n", "// @flow\n\nimport {
SC_VERSION } from './constants';\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from
'./types';\nimport flatten from './utils/flatten';\nimport generateName from
'./utils/generateAlphabeticName';\nimport { hash, phash } from './utils/hash';\nimport isStaticRules from
'./utils/isStaticRules';\n\nconst SEED = hash(SC_VERSION);\n\n/**\n * ComponentStyle is all the CSS-specific
stuff, not the React-specific stuff.\n *\nexport default class ComponentStyle {\n  baseHash: number;\n\n  baseStyle:
?ComponentStyle;\n\n  componentId: string;\n\n  isStatic: boolean;\n\n  rules: RuleSet;\n\n  staticRulesId: string;\n\n
constructor(rules:
RuleSet, componentId: string, baseStyle?: ComponentStyle) {\n  this.rules = rules;\n  this.staticRulesId = \";\n
this.isStatic = process.env.NODE_ENV === 'production' &&\n    (baseStyle === undefined || baseStyle.isStatic)
&&\n    isStaticRules(rules);\n  this.componentId = componentId;\n\n  // SC_VERSION gives us isolation
between multiple runtimes on the page at once\n  // this is improved further with use of the babel plugin
\"namespace\" feature\n  this.baseHash = phash(SEED, componentId);\n  this.baseStyle = baseStyle;\n\n  //
NOTE: This registers the componentId, which ensures a consistent order\n  // for this component's styles compared
to others\n  StyleSheet.registerId(componentId);\n  }\n\n /*\n * Flattens a rule set into valid CSS\n * Hashes it,
wraps the whole chunk in a .hash1234 { }\n * Returns the hash to be injected on render()\n *\nexport
generateAndInjectStyles(executionContext: Object, styleSheet: StyleSheet, stylis:
Stringifier) {\n  const { componentId } = this;\n\n  const names = [];\n\n  if (this.baseStyle) {\n
names.push(this.baseStyle.generateAndInjectStyles(executionContext, styleSheet, stylis));\n  }\n\n  // force
dynamic classnames if user-supplied stylis plugins are in use\n  if (this.isStatic && !stylis.hash) {\n    if
(this.staticRulesId && styleSheet.hasNameForId(componentId, this.staticRulesId)) {\n
names.push(this.staticRulesId);\n    } else {\n      const cssStatic = flatten(this.rules, executionContext, styleSheet,
stylis).join(\"\");\n      const name = generateName(phash(this.baseHash, cssStatic) >>> 0);\n\n      if
(!styleSheet.hasNameForId(componentId, name)) {\n        const cssStaticFormatted = stylis(cssStatic, `.${name}`,
undefined, componentId);\n        styleSheet.insertRules(componentId, name, cssStaticFormatted);\n      }\n\n
names.push(name);\n      this.staticRulesId = name;\n    }\n  } else {\n    const { length

```

```

} = this.rules;\n    let dynamicHash = phash(this.baseHash, stylis.hash);\n    let css = ";\n    for (let i = 0; i <
length; i++) {\n    const partRule = this.rules[i];\n    if (typeof partRule === 'string') {\n    css +=
partRule;\n    if (process.env.NODE_ENV !== 'production') dynamicHash = phash(dynamicHash, partRule +
i);\n    } else if (partRule) {\n    const partChunk = flatten(partRule, executionContext, styleSheet, stylis);\n
const partString = Array.isArray(partChunk) ? partChunk.join("") : partChunk;\n    dynamicHash =
phash(dynamicHash, partString + i);\n    css += partString;\n    }\n    }\n    if (css) {\n    const name =
generateName(dynamicHash >>> 0);\n    if (!styleSheet.hasNameForId(componentId, name)) {\n    const
cssFormatted = stylis(css, `.${name}`, undefined, componentId);\n    styleSheet.insertRules(componentId, name,
cssFormatted);\n    }\n    names.push(name);\n
}\n    }\n    return names.join(' ');
}\n}\n", "import Stylis from '@emotion/stylis';\nimport { type Stringifier }
from './types';\nimport { EMPTY_ARRAY, EMPTY_OBJECT } from './empties';\nimport throwStyledError from
'./error';\nimport { phash, SEED } from './hash';\nimport insertRulePlugin from './stylisPluginInsertRule';\n\nconst
COMMENT_REGEX = /^\\s*\\|\\|\\. *$/gm;\nconst COMPLEX_SELECTOR_PREFIX = [':', '[', '!', '#'];\n\ntype
StylisInstanceConstructorArgs = {\n  options?: Object,\n  plugins?: Array<Function>,\n};\n\nexport default function
createStylisInstance({\n  options = EMPTY_OBJECT,\n  plugins = EMPTY_ARRAY,\n}:
StylisInstanceConstructorArgs = EMPTY_OBJECT) {\n  const stylis = new Stylis(options);\n  \n  // Wrap
`insertRulePlugin to build a list of rules,\n  // and then make our own plugin to return the rules. This\n  // makes it
easier to hook into the existing SSR architecture\n  \n  let parsingRules = [];\n  \n  // eslint-disable-next-line consistent-
return\n
const returnRulesPlugin = context => {\n  if (context === -2) {\n  const parsedRules = parsingRules;\n
parsingRules = [];\n  return parsedRules;\n  }\n  }\n  const parseRulesPlugin = insertRulePlugin(rule => {\n
parsingRules.push(rule);\n  });\n  \n  let _componentId: string;\n  let _selector: string;\n  let _selectorRegex:
RegExp;\n  let _consecutiveSelfRefRegExp: RegExp;\n  \n  const selfReferenceReplacer = (match, offset, string) =>
{\n  if (\n  // do not replace the first occurrence if it is complex (has a modifier)\n  (offset === 0 ?
COMPLEX_SELECTOR_PREFIX.indexOf(string[_selector.length]) === -1 : true) &&\n  // no consecutive self
refs (.b.b); that is a precedence boost and treated differently\n  !string.match(_consecutiveSelfRefRegExp)\n  )
{\n  return `.${_componentId}`;\n  }\n  \n  return match;\n  };\n  \n  /**\n   * When writing a style like\n   * \n   *
& + & {\n   *   color: red;\n   * }\n   * \n   * The second ampersand should
be a reference to the static component class. stylis\n   * has no knowledge of static class so we have to intelligently
replace the base selector.\n   * \n   * https://github.com/thysultan/stylis.js/tree/v3.5.4#plugins <- more info about the
context phase values\n   * \"2\" means this plugin is taking effect at the very end after all other processing is
complete\n   * \n   * const selfReferenceReplacementPlugin = (context, _, selectors) => {\n   *   if (context === 2 &&
selectors.length && selectors[0].lastIndexOf(_selector) > 0) {\n   *     // eslint-disable-next-line no-param-reassign\n
selectors[0] = selectors[0].replace(_selectorRegex, selfReferenceReplacer);\n   *   }\n   *   \n   *   stylis.use([...plugins,
selfReferenceReplacementPlugin, parseRulesPlugin, returnRulesPlugin]);\n   *   \n   *   function stringifyRules(css, selector,
prefix, componentId = '&'): Stringifier {\n   *     const flatCSS = css.replace(COMMENT_REGEX, "");\n   *     const cssStr
= selector && prefix ? `.${prefix} ${selector} { ${flatCSS} }`\n   *     : flatCSS;\n   *     \n   *     // stylis has no concept of state to be passed to plugins\n   *     // but since JS is single-threaded, we can
rely on that to ensure\n   *     // these properties stay in sync with the current stylis run\n   *     _componentId =
componentId;\n   *     _selector = selector;\n   *     _selectorRegex = new RegExp(`\\|\\|\\|${_selector}\\|\\|\\|b`, 'g');\n
   *     _consecutiveSelfRefRegExp = new RegExp(`\\|\\|\\|${_selector}\\|\\|\\|b){2,}`);\n   *     return stylis(prefix || !selector ? " :
selector, cssStr);\n   *   }\n   *   \n   *   stringifyRules.hash = plugins.length\n   *     ? plugins\n   *       .reduce((acc, plugin) => {\n
if (!plugin.name) {\n   *         throwStyledError(15);\n   *       }\n   *       return phash(acc, plugin.name);\n   *     },
SEED)\n   *     .toString()\n   *     : ";\n   *   \n   *   return stringifyRules;\n   * }\n   * }\n   * \n   * MIT License\n   * \n   * Copyright (c) 2016
Sultan Tarimo\n   * \n   * Permission is hereby granted, free of charge, to any person obtaining a copy of\n   * this
software and associated documentation files (the \"Software\"),\n   * \n   * to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge,
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```

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```

export default function(insertRule) {
  const delimiter = '/* */';
  const needle = `${delimiter}`;
  function toSheet(block) {
    if (block) {
      try {
        insertRule(`${block}`);
      } catch (e) {}
    }
    return function ruleSheet(context, content, selectors, parents, line, column, length, ns, depth, at) {
      switch (context) {
        // property
        case 1:
          // @import
          if (depth === 0 && content.charCodeAt(0) === 64) {
            return insertRule(`${content};`);
          }
          break;
        // selector
        case 2:
          if (ns === 0) {
            return content + delimiter;
          }
          break;
        // at-rule
        case 3:
          switch (ns) {
            // @font-face, @page
            case 102:
            case 112:
              return insertRule(selectors[0] + content);
            default:
              return content + (at === 0 ? delimiter : "");
          }
        case -2:
          content.split(needle).forEach(toSheet);
        }
      }
    };
  }
  "/* @flow */
  import React, { type Context, type Node, useContext, useEffect, useMemo, useState } from 'react';
  import shallowequal from 'shallowequal';
  import StyleSheet from './sheet';
  import type { Stringifier } from './types';
  import createStylisInstance from './utils/stylis';
  type Props = {
    children?: Node,
    disableCSSOMInjection?: boolean,
    disableVendorPrefixes?: boolean,
    sheet?: StyleSheet,
    stylisPlugins?: Array<Function>,
    target?: HTMLElement,
  };
  export const StyleSheetContext: Context<StyleSheet | void> = React.createContext();
  export const StyleSheetConsumer = StyleSheetContext.Consumer;
  export const StylisContext: Context<Stringifier | void> = React.createContext();
  export const StylisConsumer = StylisContext.Consumer;
  export const masterSheet: StyleSheet = new StyleSheet();
  export const masterStylis: Stringifier = createStylisInstance();
  export function useStyleSheet(): StyleSheet {
    return useContext(StyleSheetContext) || masterSheet;
  }
  export function useStylis(): Stringifier {
    return useContext(StylisContext) || masterStylis;
  }
  export default function StyleSheetManager(props: Props) {
    const [plugins, setPlugins] = useState(props.stylisPlugins);
    const contextStyleSheet = useStyleSheet();
    const styleSheet = useMemo(() => {
      let sheet = contextStyleSheet;
      if (props.sheet) {
        // eslint-disable-next-line prefer-destructuring
        sheet = props.sheet;
      } else if (props.target) {
        sheet = sheet.reconstructWithOptions({ target: props.target }, false);
      }
      if (props.disableCSSOMInjection) {
        sheet = sheet.reconstructWithOptions({ useCSSOMInjection: false });
      }
      return sheet;
    }, [props.disableCSSOMInjection, props.sheet, props.target]);
    const stylis = useMemo(() => {
      createStylisInstance({
        options: {
          prefix: !props.disableVendorPrefixes,
          plugins,
        },
        [props.disableVendorPrefixes, plugins]
      });
      useEffect(() => {
        if (!shallowequal(plugins, props.stylisPlugins)) {
          setPlugins(props.stylisPlugins);
        }
      }, [props.stylisPlugins]);
      return (
        <StyleSheetContext.Provider value={styleSheet}>
        <StylisContext.Provider value={stylis}>
        {process.env.NODE_ENV !== 'production' ? React.Children.only(props.children) : props.children}
        </StylisContext.Provider>
      </StyleSheetContext.Provider>
    );
  }
  "/* @flow */
  import StyleSheet from './sheet';
  import { type Stringifier } from './types';
  import throwStyledError from './utils/error';
  import { masterStylis } from './StyleSheetManager';
  export default class Keyframes {
    id: string;
    name: string;
    rules: string;
    constructor(name: string, rules: string) {
      this.name = name;
      this.id = `sc-keyframes-${name}`;
      this.rules = rules;
    }
    inject = (styleSheet: StyleSheet, stylisInstance: Stringifier = masterStylis) => {
      const resolvedName = this.name + stylisInstance.hash;
      if (!styleSheet.hasNameForId(this.id, resolvedName)) {
        styleSheet.insertRules(this.id, resolvedName, stylisInstance(this.rules, resolvedName,

```





```

@flow\nimport Interleave from './utils/interleave';\nimport isPlainObject from './utils/isPlainObject';\nimport {
EMPTY_ARRAY } from './utils/empties';\nimport isFunction from './utils/isFunction';\nimport flatten from
 './utils/flatten';\nimport type { Interpolation, RuleSet, Styles } from './types';\n\n/**
 * Used when flattening object
 styles to determine if we should
 * expand an array of styles.\n
 */\nconst addTag = arg => {\n
if
(Array.isArray(arg)) {\n
// eslint-disable-next-line no-param-reassign\n
arg.isCss = true;\n
}\n
return
arg;\n
};\n\nexport default function css(styles: Styles, ...interpolations: Array<Interpolation>):
RuleSet {\n
if (isFunction(styles) || isPlainObject(styles)) {\n
// $FlowFixMe\n
return
addTag(flatten(interleave(EMPTY_ARRAY, [styles, ...interpolations])));\n
}\n
if (interpolations.length === 0
&& styles.length === 1 && typeof styles[0] === 'string') {\n
// $FlowFixMe\n
return styles;\n
}\n
//
$FlowFixMe\n
return addTag(flatten(interleave(styles, interpolations)));\n
}\n
},"\n\n"/>\n\n@flow\n\nimport { useRef } from
'react';\n\nconst invalidHookCallRe = /invalid hook call/i;\n\nconst seen = new Set();\n\nexport const
checkDynamicCreation = (displayName: string, componentId?: string) => {\n
if (process.env.NODE_ENV !==
'production') {\n
const parsedIdString = componentId ? `with the id of "${componentId}"` : "";\n
const message
=
`\n
The component ${displayName}${parsedIdString} has been created dynamically.\n\n` +
`\n
You may see
this warning because you've called styled inside another component.\n\n` +
`\n
To resolve this only create new
StyledComponents
outside of any render method and function component.`;\n
// If a hook is called outside of a component:\n
//
React 17 and earlier throw an error\n
// React 18 and above use console.error\n
const originalConsoleError =
console.error // eslint-disable-line no-console\n
try {\n
let didNotCallInvalidHook = true\n
/*
$FlowIgnore[cannot-write] */\n
console.error = (consoleErrorMessage, ...consoleErrorArgs) => { // eslint-
disable-line no-console\n
// The error here is expected, since we're expecting anything that uses
`checkDynamicCreation` to\n
// be called outside of a React component.\n
if
(invalidHookCallRe.test(consoleErrorMessage)) {\n
didNotCallInvalidHook = false\n
// This shouldn't
happen, but resets `warningSeen` if we had this error happen intermittently\n
seen.delete(message);\n
}\n
else {\n
originalConsoleError(consoleErrorMessage, ...consoleErrorArgs);\n
}\n
}\n
// We purposefully call `useRef` outside of a component and expect it to throw\n
// If it doesn't, then we're
inside another component.\n
// eslint-disable-next-line react-hooks/rules-of-hooks\n
useRef();\n
if
(didNotCallInvalidHook && !seen.has(message)) {\n
// eslint-disable-next-line no-console\n
console.warn(message);\n
seen.add(message);\n
}\n
} catch (error) {\n
// The error here is expected,
since we're expecting anything that uses `checkDynamicCreation` to\n
// be called outside of a React
component.\n
if (invalidHookCallRe.test(error.message)) {\n
// This shouldn't happen, but resets
`warningSeen` if we had this error happen intermittently\n
seen.delete(message);\n
}\n
}\n
} finally {\n
/*
$FlowIgnore[cannot-write] */\n
console.error = originalConsoleError; // eslint-disable-line no-console\n
}\n
}
};\n
},"\n\n"/>\n\n@flow\n\nimport { EMPTY_OBJECT } from './empties';\n\ntype Props = {\n
theme?: any,\n
};\n\nexport default (props: Props, providedTheme: any, defaultProps: any = EMPTY_OBJECT) =>
{\n
return (props.theme !== defaultProps.theme && props.theme) || providedTheme || defaultProps.theme;\n
};\n
},"\n\n"/>\n\n@flow\n\n// Source: https://www.w3.org/TR/cssom-1/#serialize-an-identifier\n\n// Control characters and non-letter
first symbols are not supported\n\nconst escapeRegex = /[\!\"#$%&'()*+,-./:;<=>?@[\\|\\\]]^{}~]+/g;\n\nconst
dashesAtEnds = /^(^-$)/g;\n\n/**
 * TODO: Explore using CSS.escape when it becomes more available
 * in
evergreen browsers.\n
 */\n\nexport default function escape(str: string): string {\n
return (\n
str\n
// Replace all
possible CSS selectors\n
.replace(escapeRegex, '-')\n
// Remove extraneous hyphens at the start and end\n
.replace(dashesAtEnds, ""))\n
};\n
},"\n\n"/>\n\n@flow\n\n/* eslint-disable */\n\nimport generateAlphabeticName from
 './generateAlphabeticName';\n\nimport { hash } from './hash';\n\nexport default (str: string): string
=> {\n
return generateAlphabeticName(hash(str) >>> 0);\n
};\n
},"\n\n"/>\n\n@flow\n\nimport type { IStyledComponent }
from './types';\n\nexport default function isTag(target: $PropertyType<IStyledComponent, 'target'>): boolean
%checks {\n
return (\n
typeof target === 'string' &&\n
(process.env.NODE_ENV !== 'production'\n
?
target.charAt(0) === target.charAt(0).toLowerCase()\n
: true)\n
);\n
}\n
},"\n\n"/>\n\n/* eslint-disable */\n\n/**
 * Inlined such that it will be consistently transpiled to an IE-

```

compatible syntax.

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```

const isObject = val => {
  return (typeof val === 'function' || (typeof val === 'object'
    && val !== null && !Array.isArray(val)))
};
const isValidKey = key => {
  return key !== '__proto__'
    && key !== 'constructor'
    && key !== 'prototype';
};
function
  mixin(target, val, key) {
  const obj = target[key];
  if (isObject(val) && isObject(obj)) {
    mixinDeep(obj, val);
  } else {
    target[key] = val;
  }
}
export default function mixinDeep(target, ...rest) {
  for (const obj of rest) {
    if (isObject(obj)) {
      for (const key in obj) {
        if (isValidKey(key)) {
          mixin(target, obj[key], key);
        }
      }
    }
  }
  return target;
}
"@flow
import React, { useContext, useMemo, type Element, type Context } from 'react';
import throwError from '../utils/error';
import isFunction from '../utils/isFunction';
export type Theme = { [key: string]: mixed };
type ThemeArgument = Theme | ((outerTheme?: Theme) => Theme);
type Props = {
  children?: Element<any>,
  theme: ThemeArgument,
};
export const ThemeContext: Context<Theme | void> = React.createContext();
export const ThemeConsumer = ThemeContext.Consumer;
function mergeTheme(theme: ThemeArgument, outerTheme?: Theme): Theme {
  if (!theme) {
    return throwError(14);
  }
  if (isFunction(theme)) {
    const mergedTheme = theme(outerTheme);
    if ((process.env.NODE_ENV !== 'production' && !mergedTheme || Array.isArray(mergedTheme) || typeof mergedTheme !== 'object')) {
      return throwError(7);
    }
    if (Array.isArray(theme) || typeof theme !== 'object') {
      return throwError(8);
    }
    return outerTheme ? { ...outerTheme, ...theme } : theme;
  }
  /**
   * Provide a theme to an entire react component tree via context
   */
  export default function
  ThemeProvider(props: Props) {
    const outerTheme = useContext(ThemeContext);
    const themeContext = useMemo(() => mergeTheme(props.theme, outerTheme), [
      props.theme,
      outerTheme,
    ]);
    if (!props.children) {
      return null;
    }
    return <ThemeContext.Provider
      value={themeContext}>{props.children}</ThemeContext.Provider>;
  }
"@flow
import validAttr from '@emotion/is-prop-valid';
import hoist from 'hoist-non-react-statics';
import React, { createElement, type Ref, useContext } from 'react';
import { SC_VERSION } from '../constants';
import type {
  Attrs,
  IStyledComponent,
  IStyledStatics,
  RuleSet,
  ShouldForwardProp,
  Target,
} from '../types';
import { checkDynamicCreation } from '../utils/checkDynamicCreation';
import createWarnTooManyClasses from '../utils/createWarnTooManyClasses';
import determineTheme from '../utils/determineTheme';
import { EMPTY_ARRAY, EMPTY_OBJECT } from '../utils/empties';
import escape from '../utils/escape';
import generateComponentId from '../utils/generateComponentId';
import generateDisplayName from '../utils/generateDisplayName';
import getComponentName from '../utils/getComponentName';
import isFunction from '../utils/isFunction';
import isStyledComponent from '../utils/isStyledComponent';
import isTag from '../utils/isTag';
import joinStrings from '../utils/joinStrings';
import merge from '../utils/mixinDeep';
import ComponentStyle from './ComponentStyle';
import { useStyleSheet, useStylis } from './StyleSheetManager';
import { ThemeContext } from './ThemeProvider';
const identifiers = {};
/**
 * We depend on components having unique IDs
 */
function generateId(displayName?: string, parentComponentId?: string) {
  const name = typeof displayName !== 'string' ?

```

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'sc' : escape(displayName);\n // Ensure that no displayName can lead to duplicate componentIds\n
identifiers[name] = (identifiers[name] || 0) + 1;\n\n const componentId = `${name}-${generateComponentId(\n //
SC_VERSION gives us isolation between multiple runtimes on the page at once\n // this is improved further with
use of the babel plugin \"namespace\" feature\n SC_VERSION + name + identifiers[name] )}`;\n\n return
parentComponentId ? `${parentComponentId}-${componentId}` : componentId;\n\n\nfunction
useResolvedAttrs<Config>(theme:
  any = EMPTY_OBJECT, props: Config, attrs: Attrs) {\n // NOTE: can't memoize this\n // returns [context,
resolvedAttrs]\n // where resolvedAttrs is only the things injected by the attrs themselves\n const context = {
  ...props, theme };\n const resolvedAttrs = {};\n\n attrs.forEach(attrDef => {\n let resolvedAttrDef = attrDef;\n
let key;\n\n if (isFunction(resolvedAttrDef)) {\n resolvedAttrDef = resolvedAttrDef(context);\n }\n\n /*
eslint-disable guard-for-in *\n for (key in resolvedAttrDef) {\n context[key] = resolvedAttrs[key] =\n key
=== 'className'\n ? joinStrings(resolvedAttrs[key], resolvedAttrDef[key])\n : resolvedAttrDef[key];\n
}\n\n /* eslint-enable guard-for-in *\n });\n\n return [context, resolvedAttrs];\n\n\nfunction
useInjectedStyle<T>(\n componentStyle: ComponentStyle,\n isStatic: boolean,\n resolvedAttrs: T,\n
warnTooManyClasses?: $Call<typeof createWarnTooManyClasses, string, string>)\n
  {\n const styleSheet = useStyleSheet();\n const stylis = useStylis();\n\n const className = isStatic\n ?
componentStyle.generateAndInjectStyles(EMPTY_OBJECT, styleSheet, stylis)\n :
componentStyle.generateAndInjectStyles(resolvedAttrs, styleSheet, stylis);\n\n if (process.env.NODE_ENV !==
'production' && !isStatic && warnTooManyClasses) {\n warnTooManyClasses(className);\n }\n\n return
className;\n\n\nfunction useStyledComponentImpl(\n forwardedComponent: IStyledComponent,\n props:
Object,\n forwardedRef: Ref<any>,\n isStatic: boolean)\n {\n const {\n attrs: componentAttrs,\n
componentStyle,\n defaultProps,\n foldedComponentIds,\n shouldForwardProp,\n styledComponentId,\n
target,\n } = forwardedComponent;\n\n // NOTE: the non-hooks version only subscribes to this when
!componentStyle.isStatic,\n // but that'd be against the rules-of-hooks. We could be naughty and do it anyway as it\n
// should be an immutable value, but behave for now.\n
const theme = determineTheme(props, useContext(ThemeContext), defaultProps);\n\n const [context, attrs] =
useResolvedAttrs(theme || EMPTY_OBJECT, props, componentAttrs);\n\n const generatedClassName =
useInjectedStyle(\n componentStyle,\n isStatic,\n context,\n process.env.NODE_ENV !== 'production' ?
forwardedComponent.warnTooManyClasses : undefined\n );\n\n const refToForward = forwardedRef;\n\n const
elementToBeCreated: Target = attrs.$as || props.$as || attrs.as || props.as || target;\n\n const isTargetTag =
isTag(elementToBeCreated);\n const computedProps = attrs !== props ? { ...props, ...attrs } : props;\n const
propsForElement = {};\n\n // eslint-disable-next-line guard-for-in\n for (const key in computedProps) {\n if
(key[0] === '$' || key === 'as') continue;\n else if (key === 'forwardedAs') {\n propsForElement.as =
computedProps[key];\n } else if (\n shouldForwardProp\n ? shouldForwardProp(key, validAttr,
elementToBeCreated)\n
: isTargetTag\n ? validAttr(key)\n : true\n ) {\n // Don't pass through non HTML tags through to
HTML elements\n propsForElement[key] = computedProps[key];\n }\n }\n\n if (props.style && attrs.style
!== props.style) {\n propsForElement.style = { ...props.style, ...attrs.style }; }\n\n propsForElement.className
= Array.prototype\n .concat(\n foldedComponentIds,\n styledComponentId,\n generatedClassName !==
styledComponentId ? generatedClassName : null,\n props.className,\n attrs.className\n )\n
.filter(Boolean)\n .join(' ');\n\n propsForElement.ref = refToForward;\n\n return
createElement(elementToBeCreated, propsForElement);\n\n\nexport default function createStyledComponent(\n
target: $PropertyType<IStyledComponent, 'target'>,\n options: {\n attrs?: Attrs,\n componentId: string,\n
displayName?: string,\n parentComponentId?: string,\n shouldForwardProp?: ShouldForwardProp,\n },\n rules:
RuleSet)\n {\n const isTargetStyledComp = isStyledComponent(target);\n const isCompositeComponent =
!isTag(target);\n\n const {\n attrs = EMPTY_ARRAY,\n componentId = generateId(options.displayName,\n
options.parentComponentId),\n displayName = generateDisplayName(target),\n } = options;\n\n const
styledComponentId =\n options.displayName && options.componentId\n ? `${escape(options.displayName)}-

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    ${options.componentId}`\n    : options.componentId || componentId;\n\n // fold the underlying StyledComponent
attrs up (implicit extend)\n const finalAttrs =\n  isTargetStyledComp && ((target: any): IStyledComponent).attrs\n    ? Array.prototype.concat(((target: any): IStyledComponent).attrs, attrs).filter(Boolean)\n    : attrs;\n\n // eslint-
disable-next-line prefer-destructuring\n let shouldForwardProp = options.shouldForwardProp;\n\n if
(isTargetStyledComp && target.shouldForwardProp) {\n  if (options.shouldForwardProp) {\n    // compose
nested shouldForwardProp
calls\n  shouldForwardProp = (prop, filterFn, elementToBeCreated) =>\n    (((target: any):
IStyledComponent).shouldForwardProp: any): ShouldForwardProp)(\n    prop,\n    filterFn,\n
elementToBeCreated\n  ) &&\n    ((options.shouldForwardProp: any): ShouldForwardProp)(prop, filterFn,
elementToBeCreated);\n  } else {\n    // eslint-disable-next-line prefer-destructuring\n    shouldForwardProp =
((target: any): IStyledComponent).shouldForwardProp;\n  }\n}\n\n const componentStyle = new
ComponentStyle(\n  rules,\n  styledComponentId,\n  isTargetStyledComp ? ((target: Object).componentStyle:
ComponentStyle) : undefined\n);\n\n // statically styled-components don't need to build an execution context
object,\n // and shouldn't be increasing the number of class names\n const isStatic = componentStyle.isStatic &&
attrs.length === 0;\n\n /**\n * forwardRef creates a new interim component, which we'll take advantage of\n
* instead of extending ParentComponent to create _another_ interim class\n */\n let WrappedStyledComponent:
IStyledComponent;\n\n const forwardRef = (props, ref) =>\n // eslint-disable-next-line\n
useStyledComponentImpl(WrappedStyledComponent, props, ref, isStatic);\n\n forwardRef.displayName =
displayName;\n\n WrappedStyledComponent = ((React.forwardRef(forwardRef): any): IStyledComponent);\n
WrappedStyledComponent.attrs = finalAttrs;\n WrappedStyledComponent.componentStyle = componentStyle;\n
WrappedStyledComponent.displayName = displayName;\n WrappedStyledComponent.shouldForwardProp =
shouldForwardProp;\n\n // this static is used to preserve the cascade of static classes for component selector\n //
purposes; this is especially important with usage of the css prop\n WrappedStyledComponent.foldedComponentIds
= isTargetStyledComp\n ? Array.prototype.concat(\n    ((target: any):
IStyledComponent).foldedComponentIds,\n    ((target: any): IStyledComponent).styledComponentId\n
)\n : EMPTY_ARRAY;\n\n WrappedStyledComponent.styledComponentId = styledComponentId;\n\n // fold
the underlying StyledComponent target up since we folded the styles\n WrappedStyledComponent.target =
isTargetStyledComp\n ? ((target: any): IStyledComponent).target\n : target;\n\n
WrappedStyledComponent.withComponent = function withComponent(tag: Target) {\n  const { componentId:
previousComponentId, ...optionsToCopy } = options;\n\n  const newComponentId =\n    previousComponentId
&&\n    `${previousComponentId}-${isTag(tag) ? tag : escape(getComponentName(tag))}`;\n\n  const
newOptions = {\n    ...optionsToCopy,\n    attrs: finalAttrs,\n    componentId: newComponentId,\n  };\n\n
return createStyledComponent(tag, newOptions, rules);\n }; \n\n Object.defineProperty(WrappedStyledComponent,
'defaultProps', {\n  get() {\n    return this._foldedDefaultProps;\n  },\n  set(obj) {\n
this._foldedDefaultProps = isTargetStyledComp\n
    ? merge({}, ((target: any): IStyledComponent).defaultProps, obj)\n    : obj;\n  },\n});\n\n if
(process.env.NODE_ENV !== 'production') {\n  checkDynamicCreation(displayName, styledComponentId);\n\n
WrappedStyledComponent.warnTooManyClasses = createWarnTooManyClasses(\n  displayName,\n
styledComponentId\n);\n}\n\n // If the Object prototype is frozen, the "toString" property is non-writable. This
means that any objects which inherit this property\n // cannot have the property changed using an assignment. If
using strict mode, attempting that will cause an error. If not using strict\n // mode, attempting that will be silently
ignored.\n // However, we can still explicitly shadow the prototype's "toString" property by defining a new
"toString" property on this object.\n Object.defineProperty(WrappedStyledComponent, 'toString', { value: () =>
`${WrappedStyledComponent.styledComponentId}` });\n\n if (isCompositeComponent) {\n  hoist<\n
IStyledStatics,\n  $PropertyType<IStyledComponent, 'target'>,\n  { [key: $Keys<IStyledStatics>]: true }\n
>(WrappedStyledComponent, ((target: any): $PropertyType<IStyledComponent, 'target'>), {\n    // all SC-specific
things should not be hoisted\n    attrs: true,\n    componentStyle: true,\n    displayName: true,\n
foldedComponentIds: true,\n    shouldForwardProp: true,\n    styledComponentId: true,\n    target: true,\n

```

```

withComponent: true,\n  });\n }\n\n return WrappedStyledComponent;\n}\n", "// @flow\nimport type {
IStyledComponent } from './types';\nimport componentName from './getComponentName';\nimport isTag from
 './isTag';\n\nexport default function generateDisplayName(\n target: $PropertyType<IStyledComponent,
'target'>):\n string {\n return isTag(target) ? `styled.${target}` :
`Styled(${getComponentName(target)})`;}\n}\n", /**\n * Convenience function for joining strings to form
className chains\n */\nexport default function
joinStrings(a: ?String, b: ?String): ?String {\n return a && b ? `${a} ${b}` : a || b;\n}\n", "// @flow\n\nexport const
LIMIT = 200;\n\nexport default (displayName: string, componentId: string) => {\n let generatedClasses = {};\n let
warningSeen = false;\n\n return (className: string) => {\n if (!warningSeen) {\n
generatedClasses[className] = true;\n if (Object.keys(generatedClasses).length >= LIMIT) {\n // Unable to
find latestRule in test environment.\n /* eslint-disable no-console, prefer-template */\n const parsedIdString
= componentId ? ` with the id of \`${componentId}\`` : '';\n console.warn(\n `Over ${LIMIT} classes
were generated for component ${displayName}${parsedIdString}.\n` +\n `Consider using the attrs method,
together with a style object for frequently changed styles.\n` +\n `Example:\n` +\n `const Component
= styled.div.attrs(props => ({\n ` +\n ` style: {\n`
+ \n ` background: props.background,\n` +\n ` },\n` +\n ` }))\n` +\n ` width: 100%;\n` +\n `
` <Component />\n` +\n ` );\n warningSeen = true;\n generatedClasses = {};\n }\n }\n });\n", "//
@flow\n// Thanks to ReactDOMFactories for this handy list!\n\nexport default [\n 'a',\n 'abbr',\n 'address',\n
'area',\n 'article',\n 'aside',\n 'audio',\n 'b',\n 'base',\n 'bdi',\n 'bdo',\n 'big',\n 'blockquote',\n 'body',\n 'br',\n
'button',\n 'canvas',\n 'caption',\n 'cite',\n 'code',\n 'col',\n 'colgroup',\n 'data',\n 'datalist',\n 'dd',\n 'del',\n
'details',\n 'dfn',\n 'dialog',\n 'div',\n 'dl',\n 'dt',\n 'em',\n 'embed',\n 'fieldset',\n 'figcaption',\n 'figure',\n
'footer',\n 'form',\n 'h1',\n 'h2',\n 'h3',\n 'h4',\n 'h5',\n 'h6',\n 'head',\n 'header',\n 'hgroup',\n 'hr',\n 'html',\n 'i',\n
'iframe',\n 'img',\n 'input',\n 'ins',\n 'kbd',\n 'keygen',\n 'label',\n
'legend',\n 'li',\n 'link',\n 'main',\n 'map',\n 'mark',\n 'marquee',\n 'menu',\n 'menuitem',\n 'meta',\n 'meter',\n
'nav',\n 'noscript',\n 'object',\n 'ol',\n 'optgroup',\n 'option',\n 'output',\n 'p',\n 'param',\n 'picture',\n 'pre',\n
'progress',\n 'q',\n 'rp',\n 'rt',\n 'ruby',\n 's',\n 'samp',\n 'script',\n 'section',\n 'select',\n 'small',\n 'source',\n
'span',\n 'strong',\n 'style',\n 'sub',\n 'summary',\n 'sup',\n 'table',\n 'tbody',\n 'td',\n 'textarea',\n 'tfoot',\n 'th',\n
'thead',\n 'time',\n 'title',\n 'tr',\n 'track',\n 'u',\n 'ul',\n 'var',\n 'video',\n 'wbr',\n\n // SVG\n 'circle',\n
'clipPath',\n 'defs',\n 'ellipse',\n 'foreignObject',\n 'g',\n 'image',\n 'line',\n 'linearGradient',\n 'marker',\n 'mask',\n
'path',\n 'pattern',\n 'polygon',\n 'polyline',\n 'radialGradient',\n 'rect',\n 'stop',\n 'svg',\n 'text',\n 'textPath',\n
'tspan',\n];\n", "// @flow\nimport constructWithOptions from './constructWithOptions';\nimport
StyledComponent from './models/StyledComponent';\nimport domElements from './utils/domElements';\nimport
type { Target } from './types';\n\nconst styled = (tag: Target) => constructWithOptions(StyledComponent,
tag);\n\n// Shorthands for all valid HTML Elements\ndomElements.forEach(domElement => {\n
styled[domElement] = styled(domElement);\n});\n\nexport default styled;\n", "// @flow\nimport {
isValidElementType } from 'react-is';\nimport css from './css';\nimport throwStyledError from './utils/error';\nimport
{ EMPTY_OBJECT } from './utils/empties';\nimport type { Target } from './types';\n\nexport default function
constructWithOptions(\n componentConstructor: Function,\n tag: Target,\n options: Object =
EMPTY_OBJECT)\n {\n if (!isValidElementType(tag)) {\n return throwStyledError(1, String(tag));\n }\n\n /*
This is callable directly as a template function */\n // $FlowFixMe: Not typed to avoid destructuring arguments\n
const templateFunction
= (...args) => componentConstructor(tag, options, css(...args));\n\n /* If config methods are called, wrap up a new
template function and merge options */\n templateFunction.withConfig = config =>\n
constructWithOptions(componentConstructor, tag, { ...options, ...config });\n\n /* Modify/inject new props at
runtime */\n templateFunction.attrs = attrs =>\n constructWithOptions(componentConstructor, tag, {\n
...options,\n attrs: Array.prototype.concat(options.attrs, attrs).filter(Boolean),\n });\n\n return
templateFunction;\n}\n", "// @flow\nimport StyleSheet from './sheet';\nimport type { RuleSet, Stringifier } from
 './types';\nimport flatten from './utils/flatten';\nimport isStaticRules from './utils/isStaticRules';\n\nexport default

```

```

class GlobalStyle {
  constructor(rules: RuleSet, componentId: string) {
    this.rules = rules;
    this.componentId = componentId;
    this.isStatic = isStaticRules(rules);
    // pre-register the first instance to ensure global styles load before component ones
    StyleSheet.registerId(this.componentId + 1);
  }
  createStyles(instance: number, executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier) {
    const flatCSS = flatten(this.rules, executionContext, styleSheet, stylis);
    const css = stylis(flatCSS.join(""), "");
    const id = this.componentId + instance;
    // NOTE: We use the id as a name as well, since these rules never change
    styleSheet.insertRules(id, id, css);
  }
  removeStyles(instance: number, styleSheet: StyleSheet) {
    styleSheet.clearRules(this.componentId + instance);
  }
  renderStyles(instance: number, executionContext: Object, styleSheet: StyleSheet, stylis: Stringifier) {
    if (instance > 2)
      StyleSheet.registerId(this.componentId + instance);
    // NOTE: Remove old styles, then inject the new ones
    this.removeStyles(instance, styleSheet);
    this.createStyles(instance, executionContext, styleSheet, stylis);
  }
}

import React from 'react';
import { IS_BROWSER, SC_ATTR, SC_ATTR_VERSION, SC_VERSION } from './constants';
import throwError from './utils/error';
import getNonce from './utils/nonce';
import StyleSheet from './sheet';
import StyleSheetManager from './StyleSheetManager';

declare var __SERVER__: boolean;
const CLOSING_TAG_R = /^<\/[a-z]/i;

export default class ServerStyleSheet {
  isStreaming: boolean;
  instance: StyleSheet;
  sealed: boolean;
  constructor() {
    this.instance = new StyleSheet({ isServer: true });
    this.sealed = false;
  }
  _emitSheetCSS(): string => {
    const css = this.instance.toString();
    if (!css) return "";
    const nonce = getNonce();
    const attrs = [nonce && `nonce=${"$"}{nonce}`];
    `_${SC_ATTR}=${"true"}`;
    `_${SC_ATTR_VERSION}=${"$"}{SC_VERSION}`;
    const htmlAttr = attrs.filter(Boolean).join(' ');
    return `<style ${htmlAttr}>${css}</style>`;
  }
  collectStyles(children: any) {
    if (this.sealed) {
      return throwError(2);
    }
    return <StyleSheetManager sheet={this.instance}>{children}</StyleSheetManager>;
  }
  getStyleTags(): string => {
    if (this.sealed) {
      return throwError(2);
    }
    return this._emitSheetCSS();
  }
  getStyleElement() => {
    if (this.sealed) {
      return throwError(2);
    }
    const props = {
      [SC_ATTR]: "",
      [SC_ATTR_VERSION]: SC_VERSION,
      dangerouslySetInnerHTML: {
        __html: this.instance.toString(),
      },
    };
    const nonce = getNonce();
    if (nonce) {
      (props as any).nonce = nonce;
    }
    // v4 returned an array for this fn, so we'll do the same for v5 for backward compat
    return <style {...props} key=${"sc-0-0"} />;
  }
  // eslint-disable-next-line consistent-return
  interleaveWithNodeStream(input: any) {
    if (!__SERVER__ || IS_BROWSER) {
      return throwError(3);
    }
    if (this.sealed) {
      return throwError(2);
    }
    if (__SERVER__) {
      this.seal();
      // eslint-disable-next-line global-require
      const { Readable, Transform } = require('stream');
      const readableStream: Readable = input;
      const { instance: sheet, _emitSheetCSS } = this;
      const transformer = new Transform({
        transform: function appendStyleChunks(chunk, /* encoding */ _, callback) {
          // Get the chunk and retrieve the sheet's CSS as an HTML chunk,
          // then reset its rules so we get only new ones for the next chunk
          const renderedHtml = chunk.toString();
          const html = _emitSheetCSS();
          sheet.clearTag();
          // prepend style html to chunk, unless the start of the chunk is a
          // closing tag in which case append right after that
          if (CLOSING_TAG_R.test(renderedHtml)) {
            const endOfClosingTag = renderedHtml.indexOf('>') + 1;
            const before = renderedHtml.slice(0, endOfClosingTag);
            const after = renderedHtml.slice(endOfClosingTag);
            this.push(before + html + after);
          } else {
            this.push(html + renderedHtml);
          }
          callback();
        },
      });
      readableStream.on('error', err => {
        // forward the error to the transform stream
        transformer.emit('error', err);
      });
      return readableStream.pipe(transformer);
    }
    seal = () => {
      this.sealed = true;
    };
  }
}

import StyleSheet from './sheet';
import { masterSheet } from './models/StyleSheetManager';
export const __PRIVATE__ = {
  StyleSheet,
  masterSheet,
};

import singletons;
import isStyledComponent

```

```

from './utils/isStyledComponent';\nimport css from './constructors/css';\nimport createGlobalStyle from
 './constructors/createGlobalStyle';\nimport keyframes from './constructors/keyframes';\nimport ServerStyleSheet
from './models/ServerStyleSheet';\nimport { SC_VERSION } from './constants';\n\nimport StyleSheetManager, {\n
  StyleSheetContext,\n  StyleSheetConsumer,\n} from './models/StyleSheetManager';\n\n/* Import components
*\nimport ThemeProvider, { ThemeContext, ThemeConsumer } from './models/ThemeProvider';\n\n/* Import
Higher Order Components *\nimport withTheme from './hoc/withTheme';\n\n/* Import hooks *\nimport useTheme
from './hooks/useTheme';\n\ndeclare var __SERVER__: boolean;\n\n/* Warning if you've imported this file on
React Native *\nif (\n  process.env.NODE_ENV !== 'production' &&\n  typeof navigator !== 'undefined' &&\n
  navigator.product === 'ReactNative'\n) {\n  // eslint-disable-next-line no-console\n  console.warn(\n    `It looks like
you've imported
    'styled-components' on React Native.\n`)\n  }\n  `Perhaps you're looking to import 'styled-
components/native'?\n`)\n  }\n\n/* Warning if there are several instances of styled-components *\nif (process.env.NODE_ENV
!== 'production' && process.env.NODE_ENV !== 'test' && typeof window !== 'undefined') {\n  window['__styled-
components-init__'] = window['__styled-components-init__'] || 0;\n  if (window['__styled-components-init__']
=== 1) {\n    // eslint-disable-next-line no-console\n    console.warn(\n      `It looks like there are several instances
of 'styled-components' initialized in this application. \n`)\n    `This may cause dynamic styles to not render
properly, errors during the rehydration process, '\n      'a missing theme prop, and makes your application bigger
without good reason.\n`)\n    `See https://s-c.sh/2BAXzed for more info.\n`)\n  }\n  }\n  window['__styled-
components-init__']
  += 1;\n}\n\n/* Export everything *\nexport * from './secretInternals';\nexport {\n  createGlobalStyle,\n  css,\n  isStyledComponent,\n  keyframes,\n  ServerStyleSheet,\n  StyleSheetConsumer,\n  StyleSheetContext,\n  StyleSheetManager,\n  ThemeConsumer,\n  ThemeContext,\n  ThemeProvider,\n  useTheme,\n  SC_VERSION as
version,\n  withTheme,\n};\n\n",`" @flow\nimport React, { useContext, useLayoutEffect, useRef } from
'react';\nimport { STATIC_EXECUTION_CONTEXT } from './constants';\nimport GlobalStyle from
 './models/GlobalStyle';\nimport { useStyleSheet, useStylis } from './models/StyleSheetManager';\nimport {
  ThemeContext } from './models/ThemeProvider';\nimport type { Interpolation } from './types';\nimport {
  checkDynamicCreation } from './utils/checkDynamicCreation';\nimport determineTheme from
 './utils/determineTheme';\nimport generateComponentId from './utils/generateComponentId';\nimport css from
 './css';\n\ndeclare var __SERVER__: boolean;\n\ntype
  GlobalStyleComponentPropsType = Object;\n\nexport default function createGlobalStyle(\n  strings:
  Array<string>,\n  ...interpolations: Array<Interpolation>)\n) {\n  const rules = css(strings, ...interpolations);\n  const
  styledComponentId = `sc-global-${generateComponentId(JSON.stringify(rules))}`;\n  const globalStyle = new
  GlobalStyle(rules, styledComponentId);\n  if (process.env.NODE_ENV !== 'production') {\n    checkDynamicCreation(styledComponentId);\n  }\n  function GlobalStyleComponent(props:
  GlobalStyleComponentPropsType) {\n    const styleSheet = useStyleSheet();\n    const stylis = useStylis();\n    const
  theme = useContext(ThemeContext);\n    const instanceRef =
  useRef(styleSheet.allocateGSInstance(styledComponentId));\n    const instance = instanceRef.current;\n    if
  (process.env.NODE_ENV !== 'production' && React.Children.count(props.children)) {\n      // eslint-disable-next-
line no-console\n      console.warn(\n        `The global style component ${styledComponentId}
was given child JSX. createGlobalStyle does not render children.`\n      );\n    }\n    if (\n      process.env.NODE_ENV !== 'production' &&\n      rules.some(rule => typeof rule === 'string' &&
rule.indexOf('@import') !== -1)\n    ) {\n      // eslint-disable-next-line no-console\n      console.warn(\n        `Please
do not use @import CSS syntax in createGlobalStyle at this time, as the CSSOM APIs we use in production do not
handle it well. Instead, we recommend using a library such as react-helmet to inject a typical <link> meta tag to the
stylesheet, or simply embedding it manually in your index.html <head> section for a simpler app.`\n      );\n    }\n  }\n  if (styleSheet.server) {\n    renderStyles(instance, props, styleSheet, theme, stylis);\n  }\n  if (!__SERVER__)\n  {\n    // this conditional is fine because it is compiled away for the relevant builds during minification,\n    //

```

```
resulting in a single unguarded hook call\n // eslint-disable-next-line
react-hooks/rules-of-hooks\n  useLayoutEffect(() => {\n    if (!styleSheet.server) {\nrenderStyles(instance, props, styleSheet, theme, stylis);\n      return () => globalStyle.removeStyles(instance,\nstyleSheet);\n    }\n  }, [instance, props, styleSheet, theme, stylis]);\n}\n\nreturn null;\n}\n\nfunction
renderStyles(instance, props, styleSheet, theme, stylis) {\n  if (globalStyle.isStatic) {\n
globalStyle.renderStyles(instance, STATIC_EXECUTION_CONTEXT, styleSheet, stylis);\n  } else {\n    const
context = {\n      ...props,\n      theme: determineTheme(props, theme, GlobalStyleComponent.defaultProps),\n
};\n\n    globalStyle.renderStyles(instance, context, styleSheet, stylis);\n  }\n}\n\n// $FlowFixMe\nreturn
React.memo(GlobalStyleComponent);\n\n\"\", \"// @flow\n\nimport css from './css';\nimport generateComponentId
from './utils/generateComponentId';\nimport Keyframes from './models/Keyframes';\nimport type
{ Interpolation, Styles } from './types';\n\nexport default function keyframes(\n  strings: Styles,\n  ...interpolations:
Array<Interpolation>\n): Keyframes {\n  /* Warning if you've used keyframes on React Native */\n  if (\n
process.env.NODE_ENV !== 'production' &&\n    typeof navigator !== 'undefined' &&\n    navigator.product ===
'ReactNative'\n  ) {\n    // eslint-disable-next-line no-console\n    console.warn(\n      `keyframes` cannot be used on
ReactNative, only on the web. To do animation in ReactNative please use Animated.\n    );\n  }\n\n  const rules =
css(strings, ...interpolations).join(\"\");\n  const name = generateComponentId(rules);\n  return new Keyframes(name,\n
rules);\n}\n\n\"\", \"// @flow\n\nimport { useContext } from 'react';\nimport { ThemeContext } from
'./models/ThemeProvider';\n\nconst useTheme = () => useContext(ThemeContext);\n\nexport default
useTheme;\n\n\"\", \"// @flow\n\nimport React, { useContext, type AbstractComponent } from 'react';\nimport hoistStatics
from 'hoist-non-react-statics';\nimport
{ ThemeContext } from './models/ThemeProvider';\nimport determineTheme from
'./utils/determineTheme';\nimport getComponentName from './utils/getComponentName';\n\n// NOTE: this would
be the correct signature:\n// export default <Config: { theme?: any }, Instance>(\n//   Component:
AbstractComponent<Config, Instance>\n// ): AbstractComponent<$Diff<Config, { theme?: any } & { theme?: any
}, Instance>\n\n// but the old build system tooling doesn't support the syntax\n\nexport default (Component:
AbstractComponent<*, *>) => {\n  // $FlowFixMe This should be React.forwardRef<Config, Instance>\n  const
WithTheme = React.forwardRef((props, ref) => {\n    const theme = useContext(ThemeContext);\n    // $FlowFixMe
defaultProps isn't declared so it can be inferrable\n    const { defaultProps } = Component;\n    const themeProp =
determineTheme(props, theme, defaultProps);\n\n    if (process.env.NODE_ENV !== 'production' && themeProp
=== undefined) {\n      // eslint-disable-next-line no-console\n      console.warn(\n        `[withTheme] You are not using a ThemeProvider
nor passing a theme prop or a theme in defaultProps in component class \"${getComponentName(\n
Component\n      )}\"`\n      );\n    }\n\n    return <Component {...props} theme={themeProp} ref={ref} />;\n  });\n\n  hoistStatics(WithTheme, Component);\n\n  WithTheme.displayName =
`WithTheme(${getComponentName(Component)})`;\n\n  return
WithTheme;\n};\n\n\"\", \"names\": [\"strings\", \"interpolations\", \"result\", \"i\", \"len\", \"length\", \"push\", \"x\", \"toString\", \"Object\", \"p
rototype\", \"call\", \"typeof\", \"EMPTY_ARRAY\", \"freeze\", \"EMPTY_OBJECT\", \"isFunction\", \"test\", \"getComponentNa
me\", \"target\", \"process\", \"env\", \"NODE_ENV\", \"displayName\", \"name\", \"isStyledComponent\", \"styledComponentId\", \"S
C_ATTR\", \"REACT_APP_SC_ATTR\", \"IS_BROWSER\", \"window\", \"DISABLE_SPEEDY\", \"Boolean\", \"SC_DISAB
LE_SPEEDY\", \"REACT_APP_SC_DISABLE_SPEEDY\", \"STATIC_EXECUTION_CONTEXT\", \"ERRORS\", \"for
mat\", \"a\", \"b\", \"c\", \"arguments\", \"forEach\", \"d\", \"replace\", \"throwStyledComponentsError\", \"code\", \"Error\", \"join\", \"trim\", \"
DefaultGroupedTag\", \"tag\", \"groupSizes\", \"Uint32Array\", \"indexOfGroup\", \"group\", \"index\", \"this\", \"insertRules\", \"rules
\", \"oldBuffer\", \"oldSize\", \"newSize\", \"throwStyledError\", \"set\", \"ruleIndex\", \"I\", \"insertRule\", \"clearGroup\", \"startIndex\",
\"endIndex\", \"deleteRule\", \"getGroup\", \"css\", \"getRule\", \"groupIDRegister\", \"Map\", \"reverseRegister\", \"nextFreeGroup\",
\"getGroupForId\", \"id\", \"has\", \"get\", \"getIdForGroup\", \"setGroupForId\", \"SELECTOR\", \"MARKER_RE\", \"RegExp\", \"re
hydrateNamesFromContent\", \"sheet\", \"content\", \"names\", \"split\", \"registerName\", \"rehydrateSheetFromTag\", \"style\", \"p
arts\", \"textContent\", \"part\", \"marker\", \"match\", \"parseInt\", \"getTag\", \"getNonce\", \"__webpack_nonce__\", \"makeStyleTag
\", \"head\", \"document\", \"parent\", \"createElement\", \"prevStyle\", \"childNodes\", \"child\", \"nodeType\", \"hasAttribute\", \"findLa
```



stStyleTag","nextSibling","undefined","setAttribute","\_\_VERSION\_\_","nonce","insertBefore","CSSOMTag","element","appendChild","createTextNode","styleSheets","ownerNode","getSheet","rule","\_error","cssRules","cssText","TextTag","nodes","node","refNode","removeChild","VirtualTag","\_target","splice","SHOULD\_REHYDRATE","defaultOptions","isServer","useCSSOMInjection","StyleSheet","options","globalStyles","gs","server","querySelectorAll","getAttribute","parentNode","rehydrateSheet","registerId","reconstructWithOptions","withNames","allocateGSInstance","hasNameForId","add","groupNames","Set","clearNames","clear","clearRules","clearTag","size","selector","outputSheet","AD\_REPLACER\_R","getAlphabeticChar","String","fromCharCode","generateAlphabeticName","Math","abs","phash","h","charCodeAt","hash","isStaticRules","SEED","ComponentStyle","componentId","baseStyle","staticRulesId","isStatic","baseHash","generateAndInjectStyles","executionContext","styleSheet","stylis","cssStatic","flatten","generateName","cssStaticFormatted","dynamicHash","partRule","partChunk","partString","Array","isArray","cssFormatted","COMMENT\_REGEX","COMPLEX\_SELECTOR\_PREFIX","createStylisInstance","\_componentId","\_selector","\_selectorRegex","\_consecutiveSelfRefRegExp","plugins","Stylis","parsingRules","parseRulesPlugin","toSheet","block","e","context","selectors","parents","line","column","ns","depth","at","delimiter","insertRulePlugin","selfReferenceReplacer","offset","string","indexOf","stringifyRules","prefix","flatCSS","cssStr","use","\_","lastIndexOf","parsedRules","reduce","acc","plugin","StyleSheetContext","React","createContext","StyleSheetConsumer","Consumer","StylisContext","masterSheet","masterStylis","useStyleSheet","useContext","useStylis","StyleSheetManager","props","useState","stylisPlugins","setPlugins","contextStyleSheet","useMemo","disableCSSOMInjection","disableVendorPrefixes","useEffect","shallowequal","Provider","value","Children","only","children","Keyframes","inject","stylisInstance","resolvedName","\_this","getName","uppercaseCheck","uppercasePattern","msPattern","prefixAndLowerCase","char","toLowerCase","hyphenateStyleName","isFalsish","chunk","ruleSet","isReactComponent","isElement","console","warn","isPlainObject","objToCssArray","obj","prevKey","key","hasOwnProperty","isCss","hyphenate","unitless","startsWith","addTag","arg","styles","interleave","invalidHookCallRe","seen","checkDynamicCreation","message","originalConsoleError","error","didNotCallInvalidHook","consoleErrorMessage","consoleErrorArgs","useRef","providedTheme","defaultProps","theme","escapeRegex","dashesAtEnds","escape","str","isTag","charAt","isObject","val","isValidKey","mixin","mixinDeep","rest","ThemeContext","ThemeConsumer","identifiers","createStyledComponent","isTargetStyledComp","isCompositeComponent","attrs","parentComponentId","generateComponentId","generateId","generateDisplayName","finalAttrs","concat","filter","shouldForwardProp","prop","filterFn","elementToBeCreated","WrappedStyledComponent","componentStyle","forwardRef","ref","forwardedComponent","forwardedRef","componentAttrs","foldedComponentIds","resolvedAttrs","attrDef","resolvedAttrDef","useResolvedAttrs","determineTheme","generatedClassName","warnTooManyClasses","className","useInjectedStyle","refToForward","\$as","as","isTargetTag","computedProps","propsForElement","validAttr","withComponent","previousComponentId","optionsToCopy","newComponentId","defineProperty","\_foldedDefaultProps","merge","generatedClasses","warningSeen","keys","parsedIdString","createWarnTooManyClasses","hoist","styled","constructWithOptions","componentConstructor","isValidElementType","templateFunction","withConfig","config","StyledComponent","domElement","GlobalStyle","createStyles","instance","removeStyles","renderStyles","ServerStyleSheet","\_emitSheetCSS","SC\_ATTR\_VERSION","getStyleTags","sealed","getStyleElement","dangerouslySetInnerHTML","\_\_html","seal","collectStyles","interleaveWithNodeStream","input","\_\_PRIVATE\_\_","navigator","product","outerTheme","themeContext","mergedTheme","mergeTheme","JSON","stringify","globalStyle","GlobalStyleComponent","current","count","some","useLayoutEffect","memo","Component","WithTheme","themeProp","hoistStatics"],"mappings":":2jBAGA,eACEA,EACAC,WAEMC,EAAS,CAACF,EAAQ,IAEfG,EAAI,EAAGC,EAAMH,EAAeI,OAAQF,EAAIC,EAAKD,GAACK,EACzDD,EAAOI,KAAKL,EAAeE,GAAIH,EAAQG,EAAI,WAGtCD,cCVOK,UACR,OAANA,GACa,iBAANA,GAC6D,qBAAnEA,EAAEC,SAAWD,EAAEC,WAAaC,OAAOC,UAUF,SAASG,KAAKJ,MAC3DK,SAAOL,ICNGM,EAACJ,OAAOK,OAAO,IAC5BC,EAAeN,OAAOK,OAAO,ICD3B,SAASE,EAAWC,SACV,mBAATA,ECCD,SAASC,EACtBC,SAG4B,eAAzBC,QAAQC,IAAIC,UAA8C,iBAAXH,GAAuBA,GAEvEA,EAAOI,aAEPJ,EAAOK,MACP,YCXW,SAASC,EAakBN,UACjCA,GAA8C,iBAA7BA,EAAOO,kBCG1B,IAAMC,EACS,oBAAZP,cACiB,IAAhBA,QAAQC,MACdD,QAAQC,IAAIO,mBAAqBR,QAAQC,IAAIM,UACHd,cAOWE,EAA+B,oBAAXC,QAA0B,gBAAiBA,OAE/DC,EAAiBC,QACC,kBAAtBC,kBACHA,kBACmB,oBAAZb,cAAkD,IAAhBA,QAAQC,WACE,IAA5CD,QAAQC,IAAIa,6BACyB,KAA5Cd,QAAQC,IA

AIa,4BACKC,UAA5Cd,QAAQC,IAAIa,6BAEVd,QAAQC,IAAIa,iCAC2B,IAAICd,QAAQC,IAAIY,mBAAuE,KA  
AlCb,QAAQC,IAAIY,kBACIC,UAAICb,QAAQC,IAAIY,mBAEVb,QAAQC,IAAIY,kBACW,eAAzBb,QAAQC,I  
AAIC,WAKPa,EAA2B,GCjCICC,EAAkC,eAAzBhB,QAAQC,IAAIC,SCHZ,GAAK,0DAA4D,kQAAoQ,wHAA0  
H,wMAA0M,oKAAsK,8OAAgP,uHAA2H,gEAAoE,mCAAqC,oUAAsU,2NAA6N,wWAA0W,4LAA8L,kDAAsD  
,8ZAAga,0QAA4Q,0IDG7/F,GAKIE,SAASE,YACHC,0CACEC,EAAI,GAEDC,EAAI,EAAGpC,EAAMqC,UAAK  
pC,OAAQmC,EAAIpC,EAAKoc,GAAK,EAC/CD,EAAEjC,KAAUkC,uBAAAA,mBAAAA,WAGdD,EAAEG,S  
AAQ,SAAAC,GACRL,EAAIA,EAAEM,QAAQ,SAAUD,MAGnBL,EAOM,SAASO,EACtBC,8BACG7C,mCAA  
AA,yBAE0B,eAAzBmB,QAAQC,IAAIC,SACR,IAAIyB,qDACuCD,4BAC7C7C,EAAeI,OAAS,YAAcJ,EAAe+C,  
KAAK,MAAU,KAIIE,IAAID,MAAMV,gBAAOD,EAAOU,WAAU7C,IAAgBgD,QE9BrD,IAMDC,wBAOQC,Q  
ACLC,WAAa,IAAIC,YAVR,UAWThD,OAXS,SAYT8C,IAAMA,6BAGbG,aAAA,SAAaC,WACPC,EAAQ,EAC  
HrD,EAAI,EAAGA,EAAIoD,EAAOpD,IACzBqD,GAASC,KAAKL,WAAWjD,UAGpBqD,KAGTE,YAAA,SAA  
YH,EAAeI,MACrBJ,GAASE,KAAKL,WAAW/C,OAAQ,SAC7BuD,EAAYH,KAAKL,WACjBS,EAAUD,EAAU  
vD,OAETByD,EAAUD,EACPN,GAASO,IACdA,IAAY,GACE,GACZC,EAAiB,MAAOR,QAIvBH,WAAa,IAAIC,  
YAAYS,QAC7BV,WAAWY,IAAIJ,QACfvD,OAASyD,MAET,IAAI3D,EAAI0D,EAAS1D,EAAI2D,EAAS3D,S  
AC5BiD,WAAWjD,GAAK,UAIrB8D,EAAYR,KAAKH,aAAaC,EAAQ,GACjCpD,EAAI,EAAG+D,EAAIP,EAA  
MtD,OAAQF,EAAI+D,EAAG/D,IACnCsD,KAAKN,IAAIgB,WAAWF,EAAWN,EAAMxD,WACiCid,WAAWG,  
KACHBU,QAKNG,WAAA,SAAWb,MACLA,EAAQE,KAAKpD,OAAQ,KACjBA,EAASoD,KAAKL,WAAWG,  
GACzBc,EAAaZ,KAAKH,aAAaC,GAC/Be,EAAWD,EAAhE,OAeZb+C,WAAWG,GAAS,MAEpB,IAAIpD,EA  
AIkE,EAAYIE,EAAImE,EAAUnE,SACHCgD,IAAIoB,WAAWF,OAK1BG,SAAS,SAASjB,OACHkB,EAAM,M  
ACNIB,GAASE,KAAKpD,QAAqC,IAA3BoD,KAAKL,WAAWG,UACnCb,UAGHPe,EAASoD,KAAKL,WAA  
WG,GACzBc,EAAaZ,KAAKH,aAAaC,GAC/Be,EAAWD,EAAhE,EAERBF,EAAIkE,EAAYIE,EAAImE,EAAUn  
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## 1.1149 semver 6.3.1

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## 1.1151 which-typed-array 1.1.11

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# 1.1152 typed-array-byte-length 1.0.0

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# 1.1153 typed-array-buffer 1.0.0

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# 1.1154 browserslist 4.21.10

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## 1.1155 webpack-hot-middleware 2.25.4

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## 1.1156 is-core-module 2.13.0

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## 1.1157 @babel/plugin-transform-regenerator

### 7.22.10

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## 1.1158 @babel/plugin-transform-unicode-escapes 7.22.10

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## 1.1159 @babel/preset-modules 0.1.6-no-external-plugins

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## 1.1160 regenerator-transform 0.15.2

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## 1.1161 babel-plugin-syntax-decorators

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# 1.1162 handlebarsjs 4.7.8

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# 1.1163 @babel/plugin-transform-dynamic-import 7.22.11

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## 1.1164 @babel/plugin-transform-nullish-coalescing-operator 7.22.11

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## 1.1165 @babel/plugin-transform-export-namespace-from 7.22.11

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## 1.1166 @babel/plugin-transform-json-strings

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# 1.1169 @babel/plugin-transform-private-property-in-object 7.22.11

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## 1.1173 object.entries 1.1.7

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## 1.1174 function.prototype.name 1.1.6

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# 1.1175 string-prototype-trimstart 1.0.7

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## 1.1177 @babel/generator 7.22.15

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## 1.1178 @babel/plugin-transform-classes

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# 1.1179 @babel/plugin-bugfix-safari-id-destructuring-collision-in-function-expression 7.22.15

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# 1.1180 @babel/plugin-transform-react-jsx

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## 1.1184 @babel/plugin-transform-parameters

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## 1.1185 @babel/plugin-transform-object-rest-spread 7.22.15

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## 1.1186 babel-preset-typescript 7.22.15

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# 1.1187 @babel/helper-member-expression-to-functions 7.22.15

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# 1.1190 @babel/helper-builder-binary-assignment-operator-visitor 7.22.15

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# 1.1191 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.22.15

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## 1.1192 immutable 4.3.4

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## 1.1193 arraybuffer.prototype.slice 1.0.2

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# 1.1194 safe-array-concat 1.0.1

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# 1.1196 string-prototype-trim 1.2.8

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# 1.1197 string-prototype-trimend 1.0.7

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# 1.1199 debounce 1.2.1

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# 1.1200 @babel/plugin-syntax-class-properties

## 7.12.13

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# 1.1201 @babel/plugin-syntax-async-generators 7.8.4

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## 1.1202 @babel/plugin-syntax-optional-catch-binding 7.8.3

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# 1.1203 @babel/plugin-syntax-numeric-separator 7.10.4

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# 1.1204 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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## 1.1205 @babel/plugin-syntax-json-strings

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## 1.1206 @babel/plugin-syntax-import-meta

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## 1.1207 @babel/plugin-syntax-object-rest-spread 7.8.3

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## 1.1208 node-fetch 1.7.3

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## 1.1209 @babel/plugin-proposal-private-methods 7.18.6

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# 1.1210 @babel/plugin-syntax-private-property-in-object 7.14.5

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# 1.1211 @babel/plugin-proposal-class-properties 7.18.6

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# 1.1212 @babel/plugin-proposal-numeric-separator 7.18.6

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## 1.1213 @babel/plugin-syntax-class-static-block 7.14.5

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## 1.1214 @babel/regjsgen 0.8.0

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## 1.1215 @babel/plugin-transform-spread

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## 1.1216 @babel/plugin-transform-template-literals 7.22.5

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## 1.1217 @babel/plugin-transform-computed-properties 7.22.5

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# 1.1218 @babel/plugin-transform-arrow-functions 7.22.5

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## 1.1219 @babel/helper-optimise-call-expression 7.22.5

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## 1.1220 @babel/plugin-transform-shorthand-properties 7.22.5

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# 1.1221 @babel/plugin-transform-sticky-regex

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# 1.1222 @babel/helper-skip-transparent-expression-wrappers 7.22.5

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# 1.1223 @babel/plugin-transform-dotall-regex 7.22.5

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## 1.1224 @babel/plugin-transform-async-to-generator 7.22.5

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## 1.1225 @babel/helper-annotate-as-pure 7.22.5

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## 1.1226 @babel/plugin-syntax-jsx 7.22.5

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## 1.1227 @babel/plugin-syntax-import-attributes 7.22.5

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## 1.1228 @babel/plugin-transform-unicode-regex 7.22.5

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# 1.1229 @babel/plugin-transform-exponentiation-operator 7.22.5

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# 1.1230 @babel/plugin-transform-class-properties 7.22.5

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# 1.1231 @babel/plugin-transform-modules-umd 7.22.5

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## 1.1232 @babel/helper-environment-visitor

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## 1.1233 @babel/plugin-transform-function-name 7.22.5



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## 1.1234 @babel/plugin-transform-literals

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## 1.1239 @babel/helper-function-name 7.22.5

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## 1.1244 @babel/compat-data 7.22.9

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## 1.1245 @babel/plugin-transform-new-target

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# 1.1246 @babel/helper-replace-supers 7.22.9

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## 1.1248 @babel/plugin-transform-unicode-property-regex 7.22.5

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## 1.1249 @babel/plugin-transform-private-methods 7.22.5

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## 1.1250 nan 2.18.0

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# 1.1251 @babel/plugin-transform-react-jsx-development 7.22.5

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# 1.1252 @babel/plugin-transform-react-pure-annotations 7.22.5

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## 1.1253 regex-prototype-flags 1.5.1

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## 1.1254 define-properties 1.2.1

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# 1.1255 define-data-property 1.1.0

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# 1.1256 set-function-name 2.0.1

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# 1.1257 @babel/types 7.22.19

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# 1.1270 ajv 6.12.6



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## 1.1283 combined-stream 1.0.8

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## 1.1284 delayed-stream 1.0.0

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```
# delayed-stream
```

Buffers events from a stream until you are ready to handle them.

```
## Installation
```

```
``` bash
npm install delayed-stream
```
```

```
## Usage
```



The following example shows how to write a http echo server that delays its response by 1000 ms.

```
``` javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
  var delayed = DelayedStream.create(req);

  setTimeout(function() {
    res.writeHead(200);
    delayed.pipe(res);
  }, 1000);
});
```
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

```
``` javascript
var delayed = DelayedStream.create(req);

setTimeout(function() {
  // Emit all buffered events and resume underlying source
  delayed.resume();
}, 1000);
```
```

### ## Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

#### ###

##### Event Buffering / Proxying

All events of the `source` stream are hijacked by overwriting the `source.emit` method. Until node implements a catch-all event listener, this is the only way.

However, `delayed-stream` still continues to emit all events it captures on the `source`, regardless of whether you have released the delayed stream yet or not.

Upon creation, `delayed-stream` captures all `source` events and stores them in an internal event buffer. Once `delayedStream.release()` is called, all buffered events are emitted on the `delayedStream`, and the event buffer is

cleared. After that, delayed-stream merely acts as a proxy for the underlying source.

### ### Error handling

Error events on `source` are buffered / proxied just like any other events. However, `delayedStream.create` attaches a no-op `'error'` listener to the `source`. This way you only have to handle errors on the `delayedStream` object, rather than in two places.

### ### Buffer limits

delayed-stream provides

a `maxDataSize` property that can be used to limit the amount of data being buffered. In order to protect you from bad `source` streams that don't react to `source.pause()`, this feature is enabled by default.

## ## API

### ### DelayedStream.create(source, [options])

Returns a new `delayedStream`. Available options are:

- \* `pauseStream`
- \* `maxDataSize`

The description for those properties can be found below.

### ### delayedStream.source

The `source` stream managed by this object. This is useful if you are passing your `delayedStream` around, and you still want to access properties on the `source` object.

### ### delayedStream.pauseStream = true

Whether to pause the underlying `source` when calling `DelayedStream.create()`. Modifying this property afterwards has no effect.

### ### delayedStream.maxDataSize = 1024 \* 1024

The amount of data to buffer before emitting an `'error'`.

If the underlying source is emitting `Buffer` objects, the `maxDataSize` refers to bytes.

If the underlying source

is emitting JavaScript strings, the size refers to characters.

If you know what you are doing, you can set this property to `Infinity` to disable this feature. You can also modify this property during runtime.

```
### delayedStream.dataSize = 0
```

The amount of data buffered so far.

```
### delayedStream.readable
```

An ECMA5 getter that returns the value of `source.readable`.

```
### delayedStream.resume()
```

If the `delayedStream` has not been released so far, `delayedStream.release()` is called.

In either case, `source.resume()` is called.

```
### delayedStream.pause()
```

Calls `source.pause()`.

```
### delayedStream.pipe(dest)
```

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

```
### delayedStream.release()
```

Emits and clears all events that have been buffered up so far. This does not resume the underlying source, use `delayedStream.resume()` instead.

```
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```

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Found in path(s):

```
* /opt/cola/permits/1830745388_1698153819.4839122/0/fis-components-delayed-stream-1-0-0-0-g42ac44e-1-tar-gz/fis-components-delayed-stream-3c3d86f/Readme.md
```

## 1.1285 ansi-styles 3.2.1

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# 1.1290 @jridgewell/set-array 1.1.2

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## 1.1306 object-assign 4.1.1

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### 7.22.20

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# 1.1310 get-intrinsic 1.2.1

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## 1.1313 @babel/helper-environment-visitor

### 7.22.20

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# 1.1314 @jridgewell/gen-mapping 0.3.3

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# 1.1316 @babel/helper-simple-access 7.22.5

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# 1.1317 @babel/helper-split-export-declaration

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## 1.1318 babel-helper-compilation-targets

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## 1.1319 @jridgewell/resolve-uri 3.1.1

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# 1.1320 @jridgewell/sourcemap-codec 1.4.15

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# 1.1321 @babel/helper-function-name 7.23.0

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## 1.1323 @babel/helper-string-parser 7.22.5

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## 1.1324 convert-source-map 2.0.0

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# 1.1325 @babel/helper-module-imports 7.22.15

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# 1.1327 @babel/template 7.22.15

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## 1.1328 @babel/plugin-proposal-export-namespace-from 7.18.9

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## 1.1329 @babel/plugin-syntax-export-namespace-from 7.8.3

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## 1.1330 @babel/plugin-syntax-dynamic-import

### 7.8.3

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## 1.1331 prop-types 15.8.1

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## 1.1332 @babel/helper-plugin-utils 7.22.5

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# 1.1333 word 0.3.0

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## 1.1335 emojis-list 3.0.0

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## 1.1336 @types/prop-types 15.7.5

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## 1.1338 csstype 3.1.2

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## 1.1339 fresh 0.5.2

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# 1.1340 types-hoist-non-react-statics 3.3.1

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# 1.1341 ua-parser-js 0.7.36

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## 1.1342 @emotion/memoize 0.8.1

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## 1.1343 asynckit 0.4.0

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## 1.1344 supports-color 5.5.0

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## 1.1345 function-bind 1.1.2

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# 1.1346 janino 2.6.1

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\* Janino - An embedded Java[™] compiler

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/AstCompilationUnitGenerator.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/ClassLoader.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/UnicodeUnescapeReader.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/ProducerIterator.java

\*

/opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/DirectoryResourceFinder.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/IteratorCollection.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/samples/DeclarationCounter.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/FilterListIterator.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Opcodes.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Scanner.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/ClassLoaderClassLoader.java

\*

/opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/ResourceFinderClassLoader.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/CachingJavaSourceClassLoader.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/enumerator/EnumeratorFormatException.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/UnitCompiler.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/LazyMultiResourceFinder.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/ReverseListIterator.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/MapResourceFinder.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Descriptor.java

\*

/opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/WarningHandler.java

\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-

```

jar/org/codehaus/janino/util/resource/Resource.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/resource/FileResourceFinder.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/ClassFileIClass.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/Producer.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/enumerator/Enumerator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/JavaSourceIClassLoader.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/iterator/FilterIterator.java
*
/opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/iterator/TransformingIterator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/AntCompilerAdapter.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/ReflectionIClass.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/ScriptEvaluator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Parser.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/CodeContext.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/iterator/TraversingIterator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/Traverser.java
*
/opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/IClass.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/Visitor.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/tools/Disassembler.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/ClassBodyEvaluator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/tools/JGrep.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/ResourceFinderClassLoader.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/iterator/DirectoryIterator.java
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/MethodDescriptor.java
*
/opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-
jar/org/codehaus/janino/util/resource/MultiResourceFinder.java

```



\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/ZipFileResourceFinder.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/FileResourceCreator.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/AutoIndentWriter.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/ResourceCreator.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/ExpressionEvaluator.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/JaninoRuntimeException.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Java.java  
\*  
/opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/MapResourceCreator.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/Benchmark.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/JarDirectoriesResourceFinder.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/UnparseVisitor.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/ClassFile.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/TeeReader.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/SimpleCompiler.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/JavaSourceClassLoader.java  
\*  
/opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/tools/HprofScrubber.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/FileResource.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/PathResourceFinder.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/UnicodeUnescapeException.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/MultiDimensionalIterator.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Compiler.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/FilterWarningHandler.java  
\* /opt/cola/permits/1835217699\_1698647343.7308998/0/janino-2-6-1-sources-1-jar/org/codehaus/janino/Mod.java  
\*

```
/opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/MultiIterator.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/resource/DirectoryResourceCreator.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/resource/ResourceFinder.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/ByteArrayClassLoader.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/iterator/EnumerationIterator.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/iterator/UniterableElementException.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/Access.java  
*  
/opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/CompilerFactory.java  
* /opt/cola/permits/1835217699_1698647343.7308998/0/janino-2-6-1-sources-1-  
jar/org/codehaus/janino/util/StringPattern.java
```

# 1.1347 punycode 2.3.1

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# 1.1348 jackson-jaxrs-xml-provider 2.12.7

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

# 1.1349 amqp-client 4.12.0

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Manifest-Version: 1.0

Bundle-Description: The RabbitMQ Java client library allows Java applications to interface with RabbitMQ.

Implementation-Title: RabbitMQ Java Client

Automatic-Module-Name: com.rabbitmq.client

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>, <http://www.gnu.org/licenses/gpl-2.0.txt>, <https://www.mozilla.org/MPL/MPL-1.1.txt>

Bundle-SymbolicName: com.rabbitmq.client

Implementation-Version: 4.12.0  
Built-By: root  
Bnd-LastModified: 1586865850087  
Bundle-ManifestVersion: 2  
Specification-Vendor: AMQP Working Group (www.amqp.org)  
Specification-Title: AMQP  
Bundle-DocURL: https://www.rabbitmq.com  
Bundle-Vendor: VMware, Inc. or its affiliates.  
Import-Package: com.codahale.metrics;version="[3.2,4)";resolution:=optional,com.fasterxml.jackson.core;version="[2.10,3)";resolution:=optional,com.fasterxml.jackson.databind;version="[2.10,3)";resolution:=optional,com.fasterxml.jackson.databind.node;version="[2.10,3)";resolution:=optional,io.micrometer.core.instrument;resolution:=optional,javax.naming,javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.callback,javax.security.sasl,org.apache.http.conn.ssl;resolution:=optional,org.slf4j;version="[1.7,2)"  
Tool: Bnd-1.50.0  
Implementation-Vendor: VMware, Inc. or its affiliates.  
Export-Package: com.rabbitmq.client.impl.nio;uses:="javax.net.ssl,com.rabbitmq.client.impl,com.rabbitmq.client,org.slf4j";version="4.12.0",com.rabbitmq.tools.json;uses:="org.slf4j";version="4.12.0",com.rabbitmq.client.impl;uses:="com.rabbitmq.client,com.rabbitmq.utility,org.slf4j,com.rabbitmq.client.impl.recovery,io.micrometer.core.instrument,javax.net.ssl,javax.net,com.codahale.metrics";version="4.12.0",com.rabbitmq.tools.jsonrpc;uses:="com.rabbitmq.tools.json,org.slf4j,com.fasterxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.node,com.rabbitmq.client";version="4.12.0",com.rabbitmq.client;uses:="com.rabbitmq.client.impl,org.slf4j,javax.net.ssl,org.apache.http.conn.ssl,com.rabbitmq.client.impl.nio,javax.net,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,javax.naming.directory,javax.naming,javax.security.sasl,javax.security.auth.callback";version="4.12.0",com.rabbitmq.client.impl.recovery;uses:="org.slf4j,com.rabbitmq.client.impl,com.rabbitmq.client,com.rabbitmq.utility";version="4.12.0",com.rabbitmq.utility;version="4.12.0"  
Bundle-Name: RabbitMQ Java Client  
Bundle-Version: 4.12.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_242  
Implementation-URL: https://www.rabbitmq.com  
Specification-Version: 0.9.1

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\* /opt/cola/permits/1840850004\_1699262351.607808/0/amqp-client-4-12-0-jar/META-INF/MANIFEST.MF  
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/opt/cola/permits/1840850004\_1699262351.607808/0/amqp-client-4-12-0-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches  
/opt/cola/permits/1840850004\_1699262351.607808/0/amqp-client-4-12-0-

jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

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- \*

- /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/core/AmqpManagementOperations.java
- \* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/event/AmqpEvent.java
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- \* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/core/AmqpMessageReturnedException.java

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- \* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-

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* /opt/cola/permits/1840870829_1699266626.420938/0/spring-amqp-1-7-15-release-sources-
jar/org/springframework/amqp/remoting/client/AmqpProxyFactoryBean.java

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\* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/support/converter/MessageConverter.java  
\*

/opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/support/converter/SimpleMessageConverter.java

\* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/support/converter/MarshallingMessageConverter.java

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*  
/opt/cola/permits/1840870829_1699266626.420938/0/spring-amqp-1-7-15-release-sources-  
jar/org/springframework/amqp/core/ReceiveAndReplyMessageCallback.java  
* /opt/cola/permits/1840870829_1699266626.420938/0/spring-amqp-1-7-15-release-sources-  
jar/org/springframework/amqp/AmqpAuthenticationException.java  
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*/  
/**  
* Special exception for listener implementations that want to signal that the current  
* batch of messages should be acknowledged immediately (i.e. as soon as possible) without  
* rollback, and without consuming any more messages within the current transaction.  
*  
* @author Dave Syer  
* @author Gary Russell  
*  
*/
```

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* /opt/cola/permits/1840870829_1699266626.420938/0/spring-amqp-1-7-15-release-sources-  
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\* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/AmqpIllegalStateException.java

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  - \* /opt/cola/permits/1840870829\_1699266626.420938/0/spring-amqp-1-7-15-release-sources-jar/org/springframework/amqp/support/postprocessor/ZipPostProcessor.java
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\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/listener/QueuesNotAvailableException.java  
\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/core/support/SimpleBatchingStrategy.java  
\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/listener/adapters/AbstractAdaptableMessageListener.java  
\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/core/BatchingRabbitTemplate.java  
\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/core/support/MessageBatch.java  
\*

/opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/connection/SimpleResourceHolder.java  
\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/config/AbstractRabbitListenerContainerFactory.java

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Found in path(s):

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/listener/ListenerContainerIdleEvent.java

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/core/DeclareExchangeConnectionListener.java

\*

/opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/listener/AsyncConsumerRestartedEvent.java

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/core/DeclarationExceptionEvent.java

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/annotation/RabbitListeners.java

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-jar/org/springframework/amqp/rabbit/annotation/Argument.java

\* /opt/cola/permits/1840884476\_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-

```
jar/org/springframework/amqp/rabbit/listener/AsyncConsumerStartedEvent.java
* /opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/listener/AsyncConsumerStoppedEvent.java
*
/opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/support/Delivery.java
* /opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/transaction/ListenerFailedRuleBasedTransactionAttribute.java
* /opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/support/LogAppenderUtils.java
* /opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/core/RabbitAdminEvent.java
* /opt/cola/permits/1840884476_1699266900.3376338/0/spring-rabbit-1-7-15-release-sources-
jar/org/springframework/amqp/rabbit/connection/ConnectionNameStrategy.java
```

# 1.1353 transaction 1.1.0

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# 1.1369 @babel/plugin-transform-private-property-in-object 7.23.4

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## 1.1371 @babel/plugin-syntax-import-assertions 7.23.3

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## 1.1372 @babel/plugin-bugfix-safari-id-structuring-collision-in-function-

# expression 7.23.3

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## 1.1374 @babel/plugin-transform- destructuring 7.23.3

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# 1.1382 @babel/plugin-transform-export-namespace-from 7.23.4

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# 1.1383 babel-plugin-transform-member-expression-literals 7.23.3

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## 1.1387 @babel/plugin-transform-shorthand-properties 7.23.3

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## 1.1388 babel-plugin-transform-property-literals 7.23.3

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# 1.1405 @babel/plugin-transform-object-super

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## 1.1408 babel-plugin-transform-reserved-words 7.23.3

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## 1.1413 @babel/plugin-transform-regenerator

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## 1.1414 @babel/plugin-transform-json-strings

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# 1.1415 validation 1.0.0.GA

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## 1.1421 object.assign 4.1.5

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# 1.1422 netty-transport-native-epoll:linux-x86\_64 linux-x86\_64:4.1.49.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll

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Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.49.Final

Built-By: root

Bnd-LastModified: 1587554607763

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2



);resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util.concurrent";version="4.1.49"  
Bundle-Name: Netty/Transport/Native/Epoll  
Bundle-Version: 4.1.49.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_212  
Implementation-URL: https://netty.io/netty-transport-native-epoll/

Found in path(s):

\* /opt/cola/permits/1862431026\_1710928692.4163618/0/netty-transport-native-epoll-4-1-49-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

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\* /opt/cola/permits/1862431026\_1710928692.4163618/0/netty-transport-native-epoll-4-1-49-final-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

# 1.1423 ua-parser-js 0.7.37

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# 1.1425 babel-helper-compilation-targets

## 7.23.6

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## 1.1429 whatwg-fetch 3.6.20

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## 1.1431 moment 2.30.1

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## 1.1432 @babel/plugin-transform-classes

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# 1.1433 @babel/plugin-bugfix-v8-static-class-fields-define-readonly 7.23.7

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# 1.1434 @babel/plugin-transform-modules-systemjs 7.23.9

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# 1.1436 immutable 4.3.5

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# 1.1437 stream-shift 1.0.3

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## 1.1438 has-tostringtag 1.0.2

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## 1.1440 is-typed-array 1.1.13

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## 1.1441 arraybuffer.prototype.slice 1.0.3

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## 1.1442 array-buffer-byte-length 1.0.1

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## 1.1443 escalade 3.1.2

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## 1.1444 internal-slot 1.0.7

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## 1.1446 webpack-hot-middleware 2.26.1

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## 1.1447 get-symbol-description 1.0.2

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# 1.1449 babel-plugin-polyfill-corejs3 0.9.0

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## 1.1450 babel-plugin-polyfill-corejs2 0.4.5

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# 1.1454 regexp-prototype-flags 1.5.2

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"GPL-2.0-with-font-exception",
"GPL-3.0",
"GPL-3.0+",
"GPL-3.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception",
"LGPL-2.0",
"LGPL-2.0+",
"LGPL-2.1",
"LGPL-2.1+",
"LGPL-3.0",
"LGPL-3.0+",
"Nunit",
"StandardML-NJ",
"bzip2-1.0.5",
"eCos-2.0",
"wxWindows"
```

```
]
# spdx-license-ids
```

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)

[![Github Actions](https://action-badges.now.sh/jslicense/spdx-license-ids)](https://wdp9fww0r9.execute-api.us-west-2.amazonaws.com/production/results/jslicense/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

### ## Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or  
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

...

```
npm install spdx-license-ids
```

...

### ## [Node.js](https://nodejs.org/) API

```
### require('spdx-license-ids')
```

Type: `string[]`

All license IDs except for the currently deprecated ones.

```

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
//=> true

ids.includes('GPL-3.0'); //=> false
...

### require('spdx-license-ids/deprecated')

```

Type: `string[]`

Deprecated license IDs.

```

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
...

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```

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# 1.1456 browserslist 4.23.0

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## 1.1457 spdx-exceptions 2.5.0

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## 1.1458 core-js-compat 3.36.0

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\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/XMLStreamReaderToContentHandler.java  
\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/ByteArrayDataSource.java

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jar/com/sun/istack/logging/Logger.java

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\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/localization/Localizer.java  
\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/localization/LocalizableMessage.java

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Manifest-Version: 1.0

Created-By: Apache Maven Bundle Plugin

Built-By: build

Build-Jdk: 9.0.4

Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68  
8, 2018-08-29T05:23:37-0700

Bnd-LastModified: 1535545434210

Bundle-Description: istack common utility code

Bundle-DocURL: <http://www.oracle.com/>

Bundle-License: [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html), [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html)

Bundle-ManifestVersion: 2

Bundle-Name: istack common utility code runtime  
Bundle-SymbolicName: com.sun.istack.common-runtime  
Bundle-Vendor: Oracle Corporation  
Bundle-Version: 3.0.7  
Export-Package: com.sun.istack;version="3.0.7";uses:="javax.activation, javax.xml.stream, org.xml.sax, org.xml.sax.helpers", com.sun.istack.localization;version="3.0.7", com.sun.istack.logging;version="3.0.7"  
Implementation-Title: istack common utility code runtime  
Implementation-Vendor: Oracle Corporation  
Implementation-Vendor-Id: com.sun.istack  
Implementation-Version: 3.0.7  
Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream, org.xml.sax, org.xml.sax.helpers  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.2.0.201605172007

Found in path(s):

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\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/localization/Localizable.java

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\* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/Builder.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/package-info.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/Nullable.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/Interned.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/NotNull.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/SAXException2.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/SAXParseException2.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/Pool.java  
 \*  
 /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/XMLStreamException2.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/FinalArrayList.java  
 \* /opt/cola/permits/1915362610\_1708701479.3946006/0/istack-commons-runtime-3-0-7-java-jar/com/sun/istack/FragmentContentHandler.java

## 1.1471 esniff 2.0.1

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# 1.1483 @babel/helper-plugin-utils 7.24.0

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## 1.1487 fast-infoset 1.2.15

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* $Header:
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1.3.2.4 2009-05-13 08:53:01 oleksiys Exp $
*/
```

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```
*/opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/AbstractResourceBundle.java
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jar/com/sun/xml/fastinfoset/org/apache/xerces/util/XMLChar.java  
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* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/tools/SAXEventSerializer.java
*
/opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/dom/DOMDocumentParser.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/tools/TransformInputOutput.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/stax/events/StartElementEvent.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
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- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/EncodingAlgorithmException.java
- \*
- /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/sax/ExtendedContentHandler.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/alphabet/BuiltInRestrictedAlphabets.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/FastInfosetResult.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/sax/FastInfosetWriter.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/EncodingAlgorithm.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/tools/SAX2StAXWriter.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/ExternalVocabulary.java
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- /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/tools/PrintTable.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/FastInfosetSerializer.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/Encoder.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/EncodingAlgorithmIndexes.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/sax/SystemIdResolver.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/XMLConstants.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/sax/PrimitiveTypeContentHandler.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/StAXManager.java
- \*
- /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/stax/LowLevelFastInfosetStreamWriter.java
- \* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-

jar/com/sun/xml/fastinfoset/algorithm/LongEncodingAlgorithm.java  
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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/org/jvnet/fastinfoset/sax/FastInfosetReader.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/util/CharArrayArray.java  
\*  
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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/util/FixedEntryStringIntMap.java  
\*  
/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/org/jvnet/fastinfoset/FastInfosetParser.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/tools/FI\_SAX\_Or\_XML\_SAX\_SAXEvent.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/org/jvnet/fastinfoset/VocabularyApplicationData.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/tools/FI\_DOM\_Or\_XML\_DOM\_SAX\_SAXEvent.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/vocab/ParserVocabulary.java

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/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/CommentEvent.java

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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/tools/FI\_SAX\_XML.java

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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/algorithm/DoubleEncodingAlgorithm.java

\*

/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/StartDocumentEvent.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/util/KeyIntMap.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/util/ValueArray.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/util/StringIntMap.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithmFactory.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/Vocabulary.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/EntityReferenceEvent.java

\*

/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/Util.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/util/StAXParserWrapper.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/UnparsedEntity.java

\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-

```

jar/com/sun/xml/fastinfoset/tools/FI_SAX_Or_XML_SAX_DOM_SAX_SAXEvent.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/stax/factory/StAXInputFactory.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/PrefixArray.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/DecoderStateTables.java
*
/opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/sax/Properties.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/algorithm/UIDEncodingAlgorithm.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/QualifiedNameArray.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithmState.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/tools/StAX2SAXReader.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/tools/FI_StAX_SAX_Or_XML_SAX_SAXEvent.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/StringArray.java
*
/opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/org/jvnet/fastinfoset/sax/helpers/EncodingAlgorithmAttributesImpl.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/stax/factory/StAXEventFactory.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/stax/events/EventBase.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/ValueArrayResourceException.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/tools/XML_DOM_FI.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/dom/DOMDocumentSerializer.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/sax/Features.java
*
/opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmAttributes.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/stax/events/NamespaceBase.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/LocalNameQualifiedNamesMap.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/util/CharArrayIntMap.java
* /opt/cola/permits/1924839281_1709666927.651295/0/fastinfoset-1-2-15-sources-6-
jar/com/sun/xml/fastinfoset/algorithm/IntEncodingAlgorithm.java

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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmContentHandler.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/StAXEventReader.java  
\*  
/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/ProcessingInstructionEvent.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/OctetBufferListener.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/ReadIterator.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/tools/VocabularyGenerator.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/algorithm/IEEE754FloatingPointEncodingAlgorithm.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/util/DuplicateAttributeVerifier.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/sax/SAXDocumentSerializer.java  
\*  
/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/StAXEventWriter.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/CharactersEvent.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/Notation.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/vocab/Vocabulary.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/sax/helpers/FastInfosetDefaultHandler.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/FastInfosetSource.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/util/CharArrayString.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/org/jvnet/fastinfoset/RestrictedAlphabet.java  
\*  
/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/QualifiedName.java  
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\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/Decoder.java  
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jar/com/sun/xml/fastinfoset/sax/SAXDocumentParser.java  
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/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/algorithm/BooleanEncodingAlgorithm.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithm.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/sax/AttributesHolder.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/algorithm/HexadecimalEncodingAlgorithm.java  
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jar/com/sun/xml/fastinfoset/algorithm/FloatEncodingAlgorithm.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/algorithm/BASE64EncodingAlgorithm.java  
\* /opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-  
jar/com/sun/xml/fastinfoset/stax/StAXDocumentParser.java

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\*/opt/cola/permits/1924839281\_1709666927.651295/0/fastinfoset-1-2-15-sources-6-jar/com/sun/xml/fastinfoset/stax/events/StAXFilteredEvent.java

# 1.1488 txw2 2.3.1

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*
* <blockquote>
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* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
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* </blockquote>
*
* <p>This class encapsulates the logic of Namespace processing: it
* tracks the declarations currently in force for each context and
* automatically processes qualified XML names into their Namespace
* parts; it can also be used in reverse for generating XML qnames
* from Namespaces.</p>
*
* <p>Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* <p>Here is a simple session:</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
*
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
*
* parts = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);

```

```

* System.out.println("Raw name: " + parts[2]);
*
* parts = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
*
* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* <p>Although SAX drivers (parsers) may choose to use this class to
* implement namespace handling, they are not required to do so.
* Applications
* must track namespace information themselves if they
* want to use namespace information.
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

```

Found in path(s):

```

* /opt/cola/permits/1925246433_1709710223.8825061/0/txw2-2-3-1-sources-4-
jar/com/sun/xml/txw2/NamespaceSupport.java

```

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INF/maven/org.glassfish.jaxb/txw2/pom.xml

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- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/Attribute.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/output/StreamSerializer.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/output/XmlSerializer.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/StartTag.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/TxwException.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/ContentVisitor.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/output/IndentingXMLFilter.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/TypedXmlWriter.java
- \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/annotation/XmlValue.java
- \*
  - /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/output/TXWResult.java
  - \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/annotation/XmlCDATA.java
  - \* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-

jar/com/sun/xml/txw2/DatatypeWriter.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/IllegalAnnotationException.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/IllegalSignatureException.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/Cdata.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/DumbEscapeHandler.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/DumpSerializer.java  
\*  
/opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/Text.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/EndTag.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/IndentingXMLStreamWriter.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/Content.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/DelegatingXMLStreamWriter.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/annotation/XmlAttribute.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/Document.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/DataWriter.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/DomSerializer.java  
\*  
/opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/StartDocument.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/Comment.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/annotation/XmlElement.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/TXW.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/ResultFactory.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/EndDocument.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/TXWSerializer.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/NamespaceResolver.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/ContainerElement.java  
\*  
/opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-  
jar/com/sun/xml/txw2/output/SaxSerializer.java  
\* /opt/cola/permits/1925246433\_1709710223.8825061/0/txw2-2-3-1-sources-4-



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jar/com/sun/xml/txw2/annotation/XmlNamespace.java
* /opt/cola/permits/1925246433_1709710223.8825061/0/txw2-2-3-1-sources-4-jar/com/sun/xml/txw2/Pcdata.java
* /opt/cola/permits/1925246433_1709710223.8825061/0/txw2-2-3-1-sources-4-
jar/com/sun/xml/txw2/output/CharacterEscapeHandler.java
* /opt/cola/permits/1925246433_1709710223.8825061/0/txw2-2-3-1-sources-4-
jar/com/sun/xml/txw2/output/StaxSerializer.java
* /opt/cola/permits/1925246433_1709710223.8825061/0/txw2-2-3-1-sources-4-
jar/com/sun/xml/txw2/NamespaceDecl.java
```

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*/
// NO WARRANTY! This class is in the public domain.
/**
* Default implementation of the Attributes interface.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class provides a default implementation of the SAX2
* { @link org.xml.sax.Attributes Attributes } interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
*
* <p>There are two typical uses of this class:</p>
*
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
*
* <p>This class replaces the now-deprecated SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl
* AttributeListImpl }
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList } interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since JAXB 1.0
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

```

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```

* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/util/AttributesImpl.java

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 */
/**
 * Sets the int[] data to this object.
 *
 * <p>
 * This method doesn't make a copy for a performance reason.
 * The caller is still free to modify the array it passed to this method,
```

```
* but he should do so with a care. The unmarshalling code isn't expecting
* the value to be changed while it's being routed.
*/
```

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```
*/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/annotation/XmlIsSet.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/marshaller/NamespacePrefixMapper.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/api/package-info.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/DummyPropertyInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/XmlVisitor.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListLong.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeAttributePropertyInfo.java

\*

/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/property/SingleElementNodeProperty.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/Wildcard.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/BridgeAdapter.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/XmlElementDeclQuick.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListCharacter.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Locatable.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/SimpleRestrictionModel.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/IllegalAnnotationException.java

\*

/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/ValuePropertyLoader.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/marshaller/Messages.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/util/QNameMap.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/FilterTransducer.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/ReferencePropertyInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/api/Bridge.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/MarshallerImpl.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/DefaultTransducedAccessor.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/AdaptedLister.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/Form.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/LeafPropertyLoader.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/SwaRefAdapter.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/SimpleTypeHost.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/SecureLoader.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeNonElementRef.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/property/ArrayElementNodeProperty.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/SAXConnector.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/SimpleDerivation.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/Messages.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimePropertyInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/util/SecureLoader.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/property/ValueProperty.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/AssociationMap.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/Coordinator.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/XmlAccessorFactory.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeElementInfo.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/ComplexType.java  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/AccessorFactory.java  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/nav/SecureLoader.java  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/XsiTypeLoader.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/RuntimeAnyTypeImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListInteger.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/property/Messages.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeReferencePropertyInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/PropertySeed.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/api/ClassResolver.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeTypeInfoSet.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/opt/FieldAccessor\_Long.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/LeafInfoImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/RegistryInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/property/PropertyImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/StAXPostInitAction.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListDouble.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/Util.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/nav/ParameterizedTypeImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/StructureLoader.java

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 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-  
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 jar/com/sun/xml/bind/v2/model/impl/ReferencePropertyInfoImpl.java  
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 jar/com/sun/xml/bind/v2/model/annotation/XmlElementQuick.java  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/XmlElementRefQuick.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/NamespaceContext2.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/Discarder.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/DefaultValueLoaderDecorator.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/AttributeType.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/Particle.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/opt/MethodAccessor\_Boolean.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/ContentHandlerAdaptor.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/XmlEnumQuick.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/ErrorHandler.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/Appinfo.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeClassInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/WellKnownNamespace.java

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/TextLoader.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/SchemaTypeTransducer.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/output/XmlOutput.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/nav/WildcardTypeImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeMapPropertyInfo.java

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/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/ElementPropertyInfo.java  
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 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/StAXExConnector.java  
 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/RuntimeElementInfoImpl.java  
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 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/util/StackRecorder.java  
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 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeTypeInfo.java  
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 /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/ComplexContent.java  
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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 /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-  
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 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-  
 jar/com/sun/xml/bind/v2/util/FlattenIterator.java  
 \* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-  
 jar/com/sun/xml/bind/v2/model/impl/RuntimeArrayInfoImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/AttributePropertyInfoImpl.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/AnyTypeBeanInfo.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/opt/TransducedAccessor\_field\_Boolean.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/package-info.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/XmlTypeQuick.java

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/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/model/core/WildcardMode.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/model/core/TypeRef.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/JAXBContextImpl.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/output/FastInfosetStreamWriterOutput.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/reflect/opt/TransducedAccessor_field_Long.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/api/RawAccessor.java

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/TypeInfo.java  
\*  
/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/AttrDecls.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeTypeRef.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/Base64Data.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/Element.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/XmlAttributeQuick.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/BuiltinLeafInfoImpl.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/api/Messages.java  
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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/NonElementRef.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeArrayInfo.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/AttributeAccessor.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/AnnotationSource.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/core/PropertyKind.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/ComplexRestriction.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/AnyTypeAdapter.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/ValuePropertyInfoImpl.java  
\*  
/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/annotation/RuntimeAnnotationReader.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/RuntimeUtil.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/runtime/RuntimeElementPropertyInfo.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/util/ValidationEventLocatorExImpl.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Util.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/Union.java  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-

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jar/com/sun/xml/bind/v2/schemagen/episode/SchemaBindings.java
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/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/output/IndentingUTF8XmlOutput.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/annotation/XmlLocation.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/model/nav/Navigator.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/schemagen/xmlschema/ComplexTypeHost.java
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jar/com/sun/xml/bind/v2/schemagen/xmlschema/package-info.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/IDResolver.java
*
/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/unmarshaller/StAXEventConnector.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/reflect/opt/FieldAccessor_Short.java
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/META-INF/maven/org.glassfish.jaxb/jaxb-runtime/pom.xml

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_es.properties

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_pt\_BR.properties

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_ko.properties

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_zh\_CN.properties

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_it.properties



\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_ja.properties  
\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/Messages\_fr.properties  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/Utils.java

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-

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jar/com/sun/xml/bind/v2/util/XmlFactory.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/property/Utils.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/runtime/reflect/Utils.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/v2/model/impl/Utils.java
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/api/Utils.java
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jar/com/sun/xml/bind/v2/model/annotation/Messages_pt_BR.properties
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/opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/schemagen/Messages\_ko.properties

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/marshaller/Messages\_fr.properties

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/Messages\_it.properties

\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/Messages\_es.properties

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/opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/Messages\_pt\_BR.properties

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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-jar/com/sun/xml/bind/v2/model/impl/Messages.properties  
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jar/com/sun/xml/bind/v2/schemagen/episode/Package.java

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jar/com/sun/xml/bind/v2/runtime/output/XMLStreamWriterOutput.java  
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\* /opt/cola/permits/1925246759\_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-  
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Found in path(s):
* /opt/cola/permits/1925246759_1709710163.882775/0/jaxb-runtime-2-3-1-sources-6-
jar/com/sun/xml/bind/marshaller/XMLWriter.java
```

# 1.1490 es5-ext 0.10.64

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# 1.1494 html-entities 2.5.2

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# 1.1495 parse-asn1 5.1.7

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```
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/ValueMatcher.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/ValueMatcherException.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/comparator/JSONComparator.java
*
/opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/RegularExpressionValueMatcher.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/JSONParser.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/comparator/DefaultComparator.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/comparator/JSONCompareUtil.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-jar/org/json/JSONString.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/JSONCompareMode.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/comparator/ArraySizeComparator.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/JSONCompareResult.java
*
/opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/LocationAwareValueMatcher.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/JSONAssert.java
```

```
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/Customization.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/JSONCompare.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/comparator/AbstractComparator.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/FieldComparisonFailure.java
* /opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
jar/org/skyscreamer/jsonassert/ArrayValueMatcher.java
*
/opt/cola/permits/1934586296_1710412030.7833533/0/jsonassert-1-5-0-sources-5-
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## 0.6.1

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```
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/DateTimeFormatException.java
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\* CREDIT: <a href="https://howardhinnant.github.io/date\_algorithms.html">Public domain math for converting between epoch and date-time</a>

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* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/ITU.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/TimezoneOffset.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/DefaultLeapSecondHandler.java
*
/opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/Rfc3339.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/LeapSecondException.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/AbstractRfc3339.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/EthloITU.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/Rfc3339Parser.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/TemporalConsumer.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/DateTime.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/internal/Rfc3339Formatter.java
*
/opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/TemporalType.java
* /opt/cola/permits/1938377878_1710707808.5281637/0/itu-1-8-0-sources-1-
jar/com/ethlo/time/TemporalHandler.java
```

\* /opt/cola/permits/1938377878\_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/internal/LeapSecondHandler.java  
\* /opt/cola/permits/1938377878\_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/internal/LimitedCharArrayIntegerUtil.java  
\* /opt/cola/permits/1938377878\_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/Field.java  
\* /opt/cola/permits/1938377878\_1710707808.5281637/0/itu-1-8-0-sources-1-jar/com/ethlo/time/internal/W3cDateTimeUtil.java

# 1.1506 jakarta activation api 1.2.1

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\* /opt/cola/permits/1938378216\_1710707873.563395/0/resilience4j-timelimiter-1-7-1-sources-3-

```
jar/io/github/resilience4j/timelimiter/event/TimeLimiterEvent.java
* /opt/cola/permits/1938378216_1710707873.563395/0/resilience4j-timelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnErrorEvent.java
* /opt/cola/permits/1938378216_1710707873.563395/0/resilience4j-timelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/timelimiter/TimeLimiterRegistry.java
* /opt/cola/permits/1938378216_1710707873.563395/0/resilience4j-timelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/timelimiter/event/package-info.java
*
/opt/cola/permits/1938378216_1710707873.563395/0/resilience4j-timelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/timelimiter/internal/InMemoryTimeLimiterRegistry.java
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* /opt/cola/permits/1938378212_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-
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jar/io/github/resilience4j/bulkhead/ThreadPoolBulkhead.java
* /opt/cola/permits/1938378212_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-
jar/io/github/resilience4j/bulkhead/Bulkhead.java
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\* /opt/cola/permits/1938378212\_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/internal/InMemoryBulkheadRegistry.java  
\* /opt/cola/permits/1938378212\_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/internal/SemaphoreBulkhead.java  
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- \* /opt/cola/permits/1938378212\_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/Utils/package-info.java
- \*

- /opt/cola/permits/1938378212\_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/package-info.java
- \* /opt/cola/permits/1938378212\_1710707875.8654306/0/resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/package-info.java

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# 1.1510 resilience4j-retry 1.7.1

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\* /opt/cola/permits/1938378199\_1710707871.5853863/0/resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/AbstractRetryEvent.java  
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\* /opt/cola/permits/1938378199\_1710707871.5853863/0/resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/RetryOnIgnoredErrorEvent.java  
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\* /opt/cola/permits/1938378199\_1710707871.5853863/0/resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/RetryOnSuccessEvent.java  
\* /opt/cola/permits/1938378199\_1710707871.5853863/0/resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/internal/RetryImpl.java  
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\* /opt/cola/permits/1938378199\_1710707871.5853863/0/resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/internal/InMemoryRetryRegistry.java

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## 1.1511 squiggly-filter-jackson 1.3.18

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* /opt/cola/permits/1938378204_1710707878.0870883/0/resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/BulkheadEventDTOFactory.java
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* /opt/cola/permits/1938378204_1710707878.0870883/0/resilience4j-framework-common-1-7-1-sources-1-
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\* /opt/cola/permits/1938378204\_1710707878.0870883/0/resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEventsEndpointResponse.java

\*  
/opt/cola/permits/1938378204\_1710707878.0870883/0/resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEventDTO.java  
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*   Alex Vasseur  wired up for @AJ proceeding  
*   Andy Clement 23-06-06 added extras for @AJ  
* *****/
```

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* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
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\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeDeclarationImpl.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareParents.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/PerClause.java

\*

/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/DeclarePrecedence.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeMethodDeclarationImpl.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/TypePattern.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutImpl.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/DeclareWarning.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareSoftImpl.java

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/AjType.java

\*

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\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-

jar/org/aspectj/internal/lang/reflect/PointcutBasedPerClauseImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/PointcutExpressionImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/lang/reflect/PointcutExpression.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/annotation/ajcDeclareSoft.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/lang/reflect/InterTypeConstructorDeclaration.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/SignaturePatternImpl.java  
 \*  
 /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/annotation/ajcDeclarePrecedence.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/annotation/ajcDeclareAnnotation.java  
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 jar/org/aspectj/internal/lang/reflect/InterTypeFieldDeclarationImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/PerClauseImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/annotation/ajcPrivileged.java  
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 jar/org/aspectj/lang/reflect/DeclareAnnotation.java  
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 /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/lang/reflect/PerClauseKind.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/lang/reflect/Advice.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/TypePatternBasedPerClauseImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/annotation/ajcDeclareEoW.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/DeclareErrorOrWarningImpl.java  
 \* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
 jar/org/aspectj/internal/lang/reflect/DeclareAnnotationImpl.java  
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 jar/org/aspectj/lang/reflect/NoSuchAdviceException.java  
 \*  
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 jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java  
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 jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java



\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/AjTypeImpl.java  
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\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/TypePatternBasedPerClause.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/NoSuchPointcutException.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/AdviceImpl.java  
\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/AjTypeSystem.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/InterTypeDeclaration.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/PointcutBasedPerClause.java  
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\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/InterTypeMethodDeclaration.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/DeclareParents.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/reflect/DeclarePrecedenceImpl.java  
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\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/reflect/AdviceKind.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/internal/lang/annotation/ajcITD.java  
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\* Xerox/PARC initial implementation  
\* Alex Vasseur new factory methods for variants of JP  
\* Abraham Nevado new factory methods for collapsed SJPs  
\* Andy Clement new factory methods that rely on LDC <class>  
\* \*\*\*\*\*/

Found in path(s):

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jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactory.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/CFlowCounter.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/cflowstack/ThreadStack.java  
\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl11.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
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*  
* Contributors:  
*   Xerox/PARC   initial implementation  
* *****/
```

Found in path(s):  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/InitializerSignature.java  
No license file was found, but licenses were detected in source scan.

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*  
* Contributors:  
*   initial implementation      Andy Clement  
* *****/
```

Found in path(s):  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/annotation/control/CodeGenerationHint.java

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* Contributors:  
* Adrian Colyer      initial implementation  
*****/
```

Found in path(s):

```
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/annotation/AdviceName.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/Signature.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/CFlow.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/CatchClauseSignatureImpl.java  
*
```

```
/opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/Conversions.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/FieldSignature.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/CFlowPlusState.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/JoinPointImpl.java  
* /opt/cola/permits/1938394251_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-
```

jar/org/aspectj/runtime/reflect/CodeSignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/PerObjectMap.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/AdviceSignature.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/ConstructorSignature.java  
\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/CatchClauseSignature.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/CodeSignature.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/MemberSignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/MethodSignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/NoAspectBoundException.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java  
\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/SourceLocationImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/ConstructorSignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/MemberSignature.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/SourceLocation.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/SignatureImpl.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/JoinPoint.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/reflect/MethodSignature.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/FieldSignatureImpl.java  
\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/reflect/StringMaker.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/runtime/internal/CFlowStack.java  
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Found in path(s):

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/Aspect.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/DeclarePrecedence.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/Around.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/Pointcut.java

\*  
/opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/AfterThrowing.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/ProceedingJoinPoint.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/After.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/AfterReturning.java  
\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/annotation/Before.java

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\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1938394251\_1710711679.9273558/0/aspectjrt-1-9-6-sources-1-jar/org/aspectj/lang/internal/lang/Placeholder.java

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```
* /opt/cola/permits/1938394251_1710711679.9273558/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/annotation/RequiredTypes.java
```

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* Contributors:  
*   Wes Isberg    initial implementation  
*   Andy Clement  fleshed out to match SuppressWarnings  
* *****/
```

Found in path(s):

```
* /opt/cola/permits/1938394251_1710711679.9273558/aspectjrt-1-9-6-sources-1-  
jar/org/aspectj/lang/annotation/SuppressAjWarnings.java
```

# 1.1514 electron-to-chromium 1.4.708

## 1.1514.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1938507598_1710739918.8169317/0/bcpjg-jdk15on-1-50-sources-3-  
jar/org/bouncycastle/apache/bzip2/CBZip2InputStream.java  
*  
/opt/cola/permits/1938507598_1710739918.8169317/0/bcpjg-jdk15on-1-50-sources-3-  
jar/org/bouncycastle/apache/bzip2/CRC.java  
* /opt/cola/permits/1938507598_1710739918.8169317/0/bcpjg-jdk15on-1-50-sources-3-  
jar/org/bouncycastle/apache/bzip2/BZip2Constants.java  
* /opt/cola/permits/1938507598_1710739918.8169317/0/bcpjg-jdk15on-1-50-sources-3-  
jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java
```

# 1.1516 bcprov-jdk15on 1.50

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```
// now keep space is free to use
```

Found in path(s):

```
* /opt/cola/permits/1938507604_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-
```

jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java

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jar/org/bouncycastle/LICENSE.java

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Found in path(s):

\* /opt/cola/permits/1938507604\_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-jar/org/bouncycastle/apache/bzip2/CRC.java

\*

/opt/cola/permits/1938507604\_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java

\* /opt/cola/permits/1938507604\_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-jar/org/bouncycastle/apache/bzip2/BZip2Constants.java

\* /opt/cola/permits/1938507604\_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-jar/org/bouncycastle/apache/bzip2/CBZip2InputStream.java

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\* Poly1305 message authentication code, designed by D. J. Bernstein.

\* <p>

\* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key

\* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106

\* effective key bits) used in the authenticator.

\* <p>

\* The polynomial calculation in this implementation is adapted from the public domain <a

\* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation

\* by Andrew M (@floodyberry).

\* @see Poly1305KeyGenerator

\*/

Found in path(s):

\* /opt/cola/permits/1938507604\_1710739916.3197036/0/bcprov-jdk15on-1-50-sources-1-jar/org/bouncycastle/crypto/macs/Poly1305.java

## 1.1517 collections 3.2.2

### 1.1517.1 Available under license :

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Version 2, June 1991

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# 1.1518 cas-client-core 3.2.1

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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/validation/AbstractTicketValidationFilter.java
*
 /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/authentication/AuthenticationFilter.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/util/XmlUtils.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/validation/InvalidProxyChainTicketValidationException.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/validation/Cas20ProxyTicketValidator.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/session/SingleSignOutHandler.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/authentication/SimplePrincipal.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/util/AssertionThreadLocalFilter.java
*
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/validation/Cas10TicketValidationFilter.java  
\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/validation/Cas20ProxyReceivingTicketValidationFilter.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/validation/TicketValidator.java  
\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/validation/ProxyListEditor.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/jaas/AssertionPrincipal.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/proxy/CleanUpTimerTask.java  
\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/ssl/AnyHostnameVerifier.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/session/SingleSignOutFilter.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/jaas/ServiceAndTicketCallbackHandler.java  
\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/proxy/ProxyGrantingTicketStorage.java  
\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/validation/Cas10TicketValidator.java  
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\* /opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-

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jar/org/jasig/cas/client/ssl/RegexHostnameVerifier.java
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/ssl/WhitelistHostnameVerifier.java
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jar/org/jasig/cas/client/util/CommonUtils.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/util/HttpServletRequestWrapperFilter.java
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/validation/Cas20ServiceTicketValidator.java
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jar/org/jasig/cas/client/authentication/GatewayResolver.java
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
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* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/util/AbstractCasFilter.java
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jar/org/jasig/cas/client/validation/ProxyList.java
* /opt/cola/permits/1938507872_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-
jar/org/jasig/cas/client/validation/Saml11TicketValidator.java
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/opt/cola/permits/1938507872\_1710739984.7031007/0/cas-client-core-3-2-1-sources-2-jar/org/jasig/cas/client/proxy/package.html

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\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/http/xml/atom/AtomContent.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/http/xml/atom/package-info.java

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\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/http/xml/atom/AtomFeedParser.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/XmlObjectParser.java

\*

/opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/atom/AbstractAtomFeedParser.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/atom/Atom.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/package-info.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/XmlNamespaceDictionary.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/atom/package-info.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/Xml.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java

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/opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/xml/GenericXml.java

\* /opt/cola/permits/1938508277\_1710740114.1221974/0/google-http-client-xml-1-20-0-sources-5-jar/com/google/api/client/http/xml/package-info.java

# 1.1520 easymock 3.1

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## 1.1521 hazelcast-client 3.8.9

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- \* /opt/cola/permits/1938508256\_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-jar/com/hazelcast/client/connection/AddressTranslator.java
- \* /opt/cola/permits/1938508256\_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-jar/com/hazelcast/client/util/AddressHelper.java
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- \* /opt/cola/permits/1938508256\_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-jar/com/hazelcast/client/cache/impl/AbstractClientInternalCacheProxy.java
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jar/com/hazelcast/client/spi/ProxyManager.java

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* /opt/cola/permits/1938508256_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-
jar/com/hazelcast/client/LoadBalancer.java
* /opt/cola/permits/1938508256_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-
jar/com/hazelcast/client/impl/querycache/subscriber/ListenerInfo.java
*
/opt/cola/permits/1938508256_1710740122.4995778/0/hazelcast-client-3-8-9-sources-1-
jar/com/hazelcast/client/proxy/ClientRingbufferProxy.java
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jar/com/sun/xml/bind/v2/model/nav/ReflectionNavigator.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/xml/bind/v2/model/nav/Navigator.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/xml/bind/Messages.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/istack/FinalArrayList.java

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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-

```
jar/com/sun/istack/FragmentContentHandler.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/istack/localization/NullLocalizable.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/istack/package-
info.java
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/istack/localization/LocalizableMessageFactory.java
*
/opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/marshaller/SAX2DOMEx.java

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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/model/nav/package.html

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jar/com/sun/xml/txw2/output/XMLWriter.java
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*/
// This class is in the Public Domain. NO WARRANTY!
/**
* Encapsulate Namespace logic for use by applications using SAX,
* or internally by SAX drivers.
*
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class encapsulates the logic of Namespace processing: it
* tracks the declarations currently in force for each context and
* automatically processes qualified XML names into their Namespace
* parts; it can also be used in reverse for generating XML qnames
* from Namespaces.</p>
*
* <p>Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* <p>Here is a simple session:</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport
support = new NamespaceSupport();
*
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
*
* parts = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
*
* parts = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

```

```
*
* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* <p>Although SAX drivers (parsers) may choose to use this class to
* implement namespace handling, they
* are not required to do so.
* Applications must track namespace information themselves if they
* want to use namespace information.
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/
```

Found in path(s):

```
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/xml/txw2/NamespaceSupport.java
```

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jar/com/sun/xml/bind/v2/Messages.properties
```

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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/istack/XMLStreamReaderToContentHandler.java

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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_it.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_zh\_CN.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/marshaller/Messages.properties  
\*  
/opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_es.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_ja.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_ko.properties  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_pt\_BR.properties  
\*  
/opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_fr.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_zh\_TW.properties  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_zh\_CN.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_zh\_TW.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_pt\_BR.properties  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/bind/v2/Messages\_de.properties  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/api/impl/NameUtil.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/annotation/XmlIsSet.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-

jar/com/sun/xml/bind/v2/model/core/ElementInfo.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/core/LeafInfo.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/nav/ParameterizedTypeImpl.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/core/MaybeElement.java  
\*  
/opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/TODO.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/annotation/Locatable.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/marshaller/MinimumEscapeHandler.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/core/ClassInfo.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/v2/model/core/Ref.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
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\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
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jar/com/sun/xml/bind/WhiteSpaceProcessor.java  
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jar/com/sun/xml/bind/v2/schemagen/episode/package-info.java  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
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- \* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/txw2/output/DumbEscapeHandler.java
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- \* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-jar/com/sun/xml/txw2/output/CharacterEscapeHandler.java
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jar/com/sun/xml/bind/Messages\_fr.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/Messages\_ja.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-  
jar/com/sun/xml/bind/Messages\_it.properties  
\* /opt/cola/permits/1938509098\_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-

```
jar/com/sun/xml/bind/Messages_pt_BR.properties
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/xml/bind/Messages_zh_CN.properties
No license file was found, but licenses were detected in source scan.
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```
Found in path(s):
* /opt/cola/permits/1938509098_1710740328.6080222/0/jaxb-core-2-2-11-sources-10-
jar/com/sun/xml/bind/Messages.properties
```

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\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/TransducedAccessor.java

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/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/DatatypeConverterImpl.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/model/impl/ModelBuilder.java

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\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/Lister.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/model/impl/RuntimeAnyTypeImpl.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/output/XMLStreamWriterOutput.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/Scope.java

\*

/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/unmarshaller/SAXConnector.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-

jar/com/sun/xml/bind/v2/model/impl/RuntimeTypeInfoSetImpl.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/XsiNilLoader.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/TextLoader.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/Loader.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/LeafPropertyXsiLoader.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/reflect/opt/Injector.java  
\*  
/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/UnmarshallingContext.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/DomLoader.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/JaxBeanInfo.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/model/runtime/RuntimeTypeInfoSet.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/ElementBeanInfoImpl.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/ValueListBeanInfoImpl.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/DefaultValueLoaderDecorator.java  
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/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/model/impl/RuntimeModelBuilder.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/ArrayBeanInfoImpl.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/api/TypeReference.java  
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jar/com/sun/xml/bind/v2/runtime/unmarshaller/Discarder.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/StAXStreamConnector.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
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- \* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/model/impl/package.html
- \* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/schemagen/xmlschema/xmlschema-for-jaxb.rng
- \* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/package.html
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jar/com/sun/xml/bind/v2/model/annotation/package.html  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/bytecode/package.html

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/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/runtime/reflect/opt/package.html

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```
*/
/**
 * Sets the int[] data to this object.
 *
 * <p>
 * This method doesn't make a copy for a performance reason.
 * The caller is still free to modify the array it passed to this method,
 * but he should do so with a care. The unmarshalling code isn't expecting
 * the value to be changed while it's being routed.
 */
```

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```
* /opt/cola/permits/1938509097_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-
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jar/com/sun/xml/bind/v2/runtime/property/SingleElementLeafProperty.java  
\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-  
jar/com/sun/xml/bind/v2/model/impl/RuntimeClassInfoImpl.java  
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jar/com/sun/xml/bind/v2/runtime/reflect/Utils.java  
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jar/com/sun/xml/bind/v2/model/impl/Utils.java  
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*/
// NO WARRANTY! This class is in the public domain.
/**
* Default implementation of the Attributes interface.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class provides a default implementation of the SAX2
* { @link org.xml.sax.Attributes Attributes } interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
*
* <p>There are two typical uses of this class:</p>
*
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
*
* <p>This class replaces the now-deprecated
SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList } interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since JAXB 1.0
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)

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Found in path(s):

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/util/AttributesImpl.java

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\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListLong.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/model/impl/Util.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/output/Encoded.java

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/opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/runtime/reflect/opt/MethodAccessor\_Long.java

\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/v2/model/impl/RuntimeReferencePropertyInfoImpl.java

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\* /opt/cola/permits/1938509097\_1710740349.8742912/0/jaxb-impl-2-2-11-sources-6-jar/com/sun/xml/bind/api/Messages\_de.properties  
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* /opt/cola/permits/1938509106_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/soap/package-  
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\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/wsaddressing/package-info.java

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* /opt/cola/permits/1938509106_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-
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\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/spi/Invoker.java  
\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/spi/http/HttpHandler.java  
\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/EndpointContext.java  
\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/spi/http/HttpContext.java  
\* /opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-jar/javax/xml/ws/spi/http/package-info.java

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\*/opt/cola/permits/1938509106\_1710740343.0507119/0/jaxws-api-2-3-0-sources-3-  
jar/javax/xml/ws/spi/ServiceLoaderUtil.java

# 1.1531 mime-pull 1.9.3

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\*/opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/TempFiles.java

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\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/ASCIUtility.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/FileData.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/BASE64DecoderStream.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/DataFile.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/PropUtil.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/FinalArrayList.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/QPDecoderStream.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/DecodingException.java  
\*  
/opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEEvent.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/Chunk.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/WeakDataFile.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/ChunkInputStream.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/FactoryFinder.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEParser.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEConfig.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-

jar/org/jvnet/mimepull/MimeUtility.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/UUDecoderStream.java  
\*  
/opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEParsingException.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/CleanUpExecutorFactory.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/InternetHeaders.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEMessage.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/MIMEPart.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/Data.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/LineInputStream.java  
\* /opt/cola/permits/1938510116\_1710740450.2152505/0/mimepull-1-9-3-sources-7-  
jar/org/jvnet/mimepull/Header.java

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```
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jar/org/jvnet/mimepull/MemoryData.java
* /opt/cola/permits/1938510116_1710740450.2152505/0/mimepull-1-9-3-sources-7-
jar/org/jvnet/mimepull/DataHead.java
```

# 1.1532 logging 1.1.1

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- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/smtp/SmtpRequests.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/BsdSocket.java
- \*
- /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelInboundInvoker.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/ThrowableUtil.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/epoll/LinuxSocket.java
- \*
- /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/DateFormatter.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/redis/RedisClientHandler.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
- \*
- /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/string/LineSeparator.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/DelegatingSslContext.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/DefaultSelectStrategy.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueChannelOption.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/multiplex/server/Http2ServerInitializer.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/PreferHeapByteBufAllocator.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/PemValue.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/smtp/LastSmtContent.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/CodecOutputList.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/Java8SslUtils.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/DefaultSelectStrategyFactory.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/haproxy/HAProxyTLV.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2Frame.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/WrappedCompositeByteBuf.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/NoopDnsCache.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2PingFrame.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/OrderedEventExecutor.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/BooleanSupplier.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/MacAddressUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/NativeLibraryUtil.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2HeadersFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameCodec.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/DefaultDnsCache.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/DefaultLastSmtContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/SmtResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/SmtpRequest.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/Log4J2Logger.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/IntSupplier.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/ResourceLeakDetectorFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/InflightNameResolver.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2ResetFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/CompressionUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/internal/tcnative/SessionTicketKey.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/flush/FlushConsolidationHandler.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2FrameStreamException.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/RoundRobinInetAddressResolver.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/group/VoidChannelGroupFuture.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/BootstrapConfig.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueEventLoop.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/smtp/SmtpUtils.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2StreamFrame.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/AcceptFilter.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2DataFrame.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/DomainNameMappingBuilder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/UnstableApi.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/flow/package-info.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelOutboundInvoker.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/WriteBufferWaterMark.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/SelectStrategyFactory.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/dns/DnsPtrRecord.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/string/LineEncoder.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/util/ResourceLeakTracker.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/resolver/dns/DnsCache.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/kqueue/NativeLongArray.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/socket/DuplexChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/smtp/SmtpCommand.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/DatagramPacketDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/internal/OutOfDirectMemoryError.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/sctp/SctpNotificationHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

```
jar/io/netty/channel/sctp/SctpChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockProtocol.proto
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/SctpChannelConfig.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/SctpMessage.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
```

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jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/MathUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/ByteProcessor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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```
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 */
/**
 * Utility class for { @link ByteBuf } that encodes and decodes to and from
 * Base64 notation.
 * 

*
 * The encoding and decoding algorithm in this class has been derived from
 * Robert Harder's Public Domain
 * Base64 Encoder/Decoder.
 */


```

Found in path(s):

```
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/base64/Base64.java
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*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/CharSequenceMap.java
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
*
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```
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/EpollEventArray.java
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/package-info.java
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
*/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
```



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jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksPortUnificationServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/tiles/Html.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/cookie/package-info.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DnsQuestion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/unix/DomainSocketAddress.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/unix/DatagramSocketAddress.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpScheme.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/HostsFileParser.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ThreadProperties.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpUtil.java

No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ProgressiveFuture.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/MemcacheMessage.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ConnectTimeoutException.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelId.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/MemcacheObject.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ProgressivePromise.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/ByteBufHolder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/UdtChannelOption.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ScheduledFuture.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/Future.java



\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/group/ChannelMatchers.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/ReferenceCounted.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/RecyclableArrayList.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/DefaultProgressivePromise.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/ChannelFactory.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/GenericFutureListener.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnreleasableByteBuf.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelProgressiveFuture.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheResponse.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHeaders.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/ResourceLeak.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/ResourceLeakDetector.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/ReferenceCountUtil.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/ConcurrentSet.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/Crc32c.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/v5/Socks5CommandStatus.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/CompleteFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseEncoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/PlatformDependent0.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponseStatus.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/MemcacheContent.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/ReadOnlyIterator.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/PendingWrite.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksCmdStatus.java
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jar/io/netty/example/rxtx/RxtxClient.java
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jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
*
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jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
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jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/Promise.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/PromiseTask.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/ImmediateEventExecutor.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/FutureListener.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockProtocol.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/Native.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/ResourceLeakException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuffer.java
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/DefaultFutureListeners.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ScheduledFutureTask.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/DefaultByteBufHolder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ImmediateExecutor.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/rxtx/RxtxClientHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/AbstractReferenceCounted.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/UdtServerChannelConfig.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/SocksAddressType.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/AbstractEventExecutor.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/DefaultPromise.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/Recycler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java  
\*

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/EmptyArrays.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/WrappedByteBuf.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/AbstractMemcacheObject.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/cors/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultAddressedEnvelope.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/Version.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/SocksMessageType.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/FullHttpResponse.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/DefaultFullBinaryMemcacheRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelOutboundBuffer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/IntCollections.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/ByteObjectHashMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2Exception.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/CharCollections.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2Headers.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2DataWriter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2LocalFlowController.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/helloworld/server/Http2OrHttpHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2CodecUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FlowController.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/collection/CharObjectHashMap.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2LifecycleManager.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/collection/LongObjectMap.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2EventAdapter.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2Flags.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/collection/ByteCollections.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/Headers.java  
\*  
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jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2FrameListener.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java  
\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2Stream.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/Http2ExampleUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/client/Http2Client.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/internal/tcnative/SSL.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/UdtServerChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/rxtx/RxtxChannelOption.java  
\*  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/sctp/SctpChannelOption.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/rxtx/package-info.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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```
*/
```

```
/**
```

```
* Enumeration of supported Base64 dialects.
```

```
* <p>
```

```
* The internal lookup tables in this class has been derived from
```

```
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
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```

```
* Base64 Encoder/Decoder</a>.
```

```
*/
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jar/io/netty/util/internal/logging/JdkLogger.java
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jar/io/netty/util/internal/logging/CommonsLogger.java

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jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
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jar/io/netty/handler/codec/http/cors/CorsHandler.java  
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jar/io/netty/util/ByteProcessorUtils.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java

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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/UncheckedBooleanSupplier.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/internal/tcnative/SniHostNameMatcher.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/Conscrypt.java
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jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/internal/ChannelUtils.java
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jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/NettyRuntime.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
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jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
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jar/io/netty/channel/internal/package-info.java
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jar/io/netty/util/SuppressForbidden.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2StreamChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/SniCompletionEvent.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/HostsFileEntries.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/LongAdderCounter.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/FailedChannel.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/uptime/UptimeServerHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/ocsp/package-info.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/ObjectCleaner.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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jar/io/netty/util/internal/Cleaner.java  
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jar/io/netty/util/internal/CleanerJava9.java  
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jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java  
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jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java  
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/\*\*

\* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.  
\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.  
\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the { @code TCP\_QUICKACK } option on the socket. See <a  
href="http://linux.die.net/man/7/tcp">TCP\_QUICKACK</a>  
\* for more details.

\*/

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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\*

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/dns/DnsCodecUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-



```

jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/macos/DnsResolver.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/macos/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/svm/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/ThreadExecutorMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java

```

```

*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
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jar/io/netty/handler/codecs/http/websocketx/Utf8Validator.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/traffic/TrafficCounter.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/udt/UdtChannel.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/sctp/package-info.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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 jar/io/netty/util/internal/logging/FormattingTuple.java  
 \*

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 jar/io/netty/util/internal/logging/MessageFormatter.java

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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```

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```
*/
```

```
/**
```

```
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
```

```
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
```

```
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
```

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/search/package-info.java  
\*  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/websocket/StompWebSocketChatServerInitializer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/haproxy/HAProxyServer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/websocket/StompSubscription.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/websocket/StompChatHandler.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/websocket/StompWebSocketProtocolCodec.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/DomainWildcardMappingBuilder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/haproxy/HAProxyHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/websocket/StompVersion.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/haproxy/HAProxyClient.java  
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\*/

/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline}.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its  
 subtypes:

\* <ul>

\* <li>{ @link  
 ChannelInboundHandler} to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>

\* <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>

\* <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}  
 \* object. A { @link ChannelHandler} is supposed to interact with the  
 \* { @link ChannelPipeline} it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler} can pass events upstream or  
 \* downstream, modify the pipeline dynamically,

or store the information

\* (using { @link AttributeKey}s) which is specific to the handler.

\*

\* <h3>State management</h3>

\*

\* A { @link ChannelHandler} often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

\* public interface Message {

\* // your methods here

\* }

\*

\* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {

\*

\* <b>private boolean loggedIn;</b>

\*

\* { @code @Override}

\* public void channelRead0({ @link ChannelHandlerContext} ctx, Message message) {

\* if (message instanceof LoginMessage) {

\* authenticate((LoginMessage) message);

\* <b>loggedIn = true;</b>

\* } else (message instanceof GetDataMessage) {

\* if (<b>loggedIn</b>) {

\* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));

\* } else {

\* fail();

\* }

\* }

\* }

\* ...

\* }

\* </pre>

\* Because the handler instance has a state variable which is dedicated to

\* one connection, you have to create a new handler instance for each new

\* channel to avoid a race condition where a unauthenticated client can get

\* the confidential information:

\* <pre>

\* // Create a new handler instance per channel.

\* // See { @link ChannelInitializer#initChannel(Channel)}.

\* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{ @link Channel}&gt; {

\* { @code @Override}

\* public void initChannel({ @link Channel} channel) {

\* channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);

\* }

\* }

\*

\* </pre>

\*

```

* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Now that the state
of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*

```

```

*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
  a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```

* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/CleanerJava6.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/DefaultChannelHandlerContext.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/FastThreadLocalThread.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java

\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/buffer/search/MultiSearchProcessor.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/buffer/search/SearchProcessor.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java

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jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

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jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

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jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java

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jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java

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jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java

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- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
- \*
- /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpHeaderNames.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/stomp/StompClientHandler.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/xml/package-info.java
- \*
- /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/package-info.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/stomp/StompConstants.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/CipherSuiteConverter.java
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- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/AbstractEventLoop.java
- \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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 jar/io/netty/handler/codec/xml/XmlCharacters.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/mqtt/MqttCodecUtil.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/socksx/v4/Socks4Message.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/ssl/OpenSslServerContext.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/mqtt/MqttEncoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/ssl/SslProvider.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/ssl/SslUtils.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/channel/epoll/EpollTcpInfo.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/example/http2/helloworld/server/Http2Server.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
 jar/io/netty/channel/unix/package-info.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/spdy/client/HttpResponseClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslEngine.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/spdy/server/SpdyOrHttpHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompContentSubframe.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlDocumentStart.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/AsciiString.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
*

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/spdy/client/SpdyClientInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/client/WebSocketClient.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribePayload.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/stomp/StompClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2FrameLogger.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttMessage.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/haproxy/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/util/DomainNameMapping.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/FastThreadLocal.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompHeaders.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/file/FileServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageAggregationException.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttMessageType.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlElement.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/stomp/StompSubframe.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ReflectiveChannelFactory.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/spdy/server/SpdyServer.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/Mapping.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpChunkedInput.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/xml/XmlElementStart.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/stomp/StompCommand.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/embedded/EmbeddedChannelId.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/proxy/HttpProxyHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/xml/XmlElementEnd.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlComment.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlNamespace.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/spdy/client/SpdyClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/IntegerHolder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlDTD.java
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jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/memcache/binary/MemcacheClient.java
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jar/io/netty/handler/codec/mqtt/MqttVersion.java

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*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
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jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/package-info.java
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jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/spdy/server/SpdyServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/DnsNameResolver.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
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jar/io/netty/handler/ssl/OpenSslContext.java
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jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttPubAckMessage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/proxy/ProxyConnectException.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/OpenSsl.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/epoll/EpollDatagramChannel.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/PromiseAggregator.java  
 \*  
 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/unix/IovArray.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/resolver/dns/DnsResolveContext.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/xml/XmlCdata.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ipfilter/IpFilterRule.java  
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 \*  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/internal/InternalThreadLocalMap.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/epoll/AbstractEpollChannel.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/unix/UnixChannelOption.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/spdy/client/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http2/Http2SecurityUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/epoll/EpollChannelOption.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/SslContext.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/xml/XmlDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/PemReader.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/HttpMessageUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttConnectPayload.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/mqtt/MqttConnectReturnCode.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerBenchmarkPage.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/NativeLibraryLoader.java

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jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/xml/XmlAttribute.java
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
No license file was found, but licenses were detected in source scan.
```

```
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```

```
*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
```

```
<p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

```
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
```

```

* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x00C | "HELLO, WORLD" | | 0x00C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 0, strip header</h3>

\* Because we can get the length of the content by calling  
\* { @link ByteBuf#readableBytes() }, you might want to strip the length  
\* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
\* specified <tt>2</tt>, that is same with the length of the length field, to  
\* strip the first two bytes.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*

```

```

* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x00C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>

```

\* <h3>2 bytes length field at offset 0, do not strip header, the length field  
\* represents the length of the whole message</h3>

\* In most cases, the length field represents the length of the message body  
\* only, as shown in the previous examples. However, in some protocols, the  
\* length field represents the length of the whole message, including the  
\* message header. In such a case, we specify a non-zero  
\* <tt>lengthAdjustment</tt>. Because the length value in this example message  
\* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>  
\* as <tt>lengthAdjustment</tt> for compensation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)

```

```

* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   |
  0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+

```

```

* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*   strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*   strip the first header field and the length field, the length field
*   represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>

```

\* @see LengthFieldPrepender

\*/

Found in path(s):

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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Found in path(s):

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpRequest.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/logging/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnpooledByteBufAllocator.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpRequestEncoder.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/ByteToMessageDecoder.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-



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jar/io/netty/example/factorial/FactorialClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksCmdResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/objectecho/ObjectEchoServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/socksproxy/SocksServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/base64/package-info.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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jar/io/netty/util/internal/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/ByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/Signal.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/server/WebSocketFrameHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/echo/EchoServer.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/websocketx/server/package-info.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/nio/NioEventLoop.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/websocketx/server/WebSocketServerIndexPage.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
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 \*  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/stream/ChunkedNioStream.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpObjectDecoder.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/Attribute.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpServerCodec.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/SocksRequest.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/ssl/package-info.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/DecoderException.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
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jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/StringUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/FailedFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/udt/UdtMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/cors/HttpCorsServerInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/qotm/QuoteOfTheMomentServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/message/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/stream/ChunkedStream.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/securechat/SecureChatClientHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelPipelineException.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultHttpContent.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/UnpooledDirectByteBuf.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/portunification/PortUnificationServer.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpHeaders.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpClientCodec.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultHttpRequest.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/GlobalEventExecutor.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/AbstractBootstrap.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultHttpMessage.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/internal/PlatformDependent.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/CompleteChannelFuture.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/DefaultEventLoop.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/EventLoop.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/CharsetUtil.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/handler/codec/socksx/SocksMessage.java  
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jar/io/netty/channel/sctp/package-info.java  
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jar/io/netty/channel/udt/nio/package-info.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/Timer.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/handler/timeout/TimeoutException.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/telnet/TelnetServer.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/nio/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/uptime/UptimeClient.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
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jar/io/netty/example/sctp/SctpEchoServer.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/socksproxy/SocksServerConnectHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/internal/logging/InternalLogLevel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/socksproxy/SocksServerUtils.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/udt/echo/rendezvous/Config.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/file/HttpStaticFileServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/securechat/SecureChatServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/factorial/BigIntegerDecoder.java
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jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/QueryStringDecoder.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/Cookie.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/discard/DiscardClient.java
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jar/io/netty/util/internal/logging/Slf4JLogger.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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jar/io/netty/handler/codec/compression/ZlibDecoder.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksAuthRequest.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/nio/package-info.java  
 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpObjectAggregator.java  
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 \* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
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 /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/telnet/TelnetClient.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/rtsp/RtspVersions.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/worldclock/WorldClockServer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/HttpResponseEncoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/multipart/Attribute.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/ServerChannel.java  
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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/http/upload/HttpUploadServerHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelFuture.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/ChannelDuplexHandler.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/udt/echo/message/MsgEchoServer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/rtsp/RtspMethods.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/sctp/oio/OioSctpChannel.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/echo/EchoServerHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/udt/echo/bytes/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/telnet/TelnetServerInitializer.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/worldclock/WorldClockClient.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/upload/HttpUploadServer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/qotm/QuoteOfTheMomentClient.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/telnet/TelnetClientHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/timeout/ReadTimeoutException.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/buffer/ByteBufUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/upload/HttpUploadClientInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/echo/EchoClient.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/AttributeMap.java
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jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/ByteBufInputStream.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpMethod.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/factorial/FactorialServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/concurrent/EventExecutor.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/SingleThreadEventLoop.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/DefaultHttpResponse.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/InternetProtocolFamily.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/proxy/HexDumpProxy.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/package-info.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/multipart/FileUpload.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/upload/HttpUploadClientHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/sctp/SctpEchoClientHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/timeout/IdleStateHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/oio/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/DuplicatedByteBuf.java

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/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/PooledDirectByteBuf.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socksx/v5/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/sctp/SctpEchoServerHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/http/HttpResponseStatus.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/Timeout.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/bootstrap/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PoolChunk.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/nio/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpConstants.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/proxy/HexDumpProxyInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockServerInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpVersion.java

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/sctp/SctpEchoClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PoolArena.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/objectecho/ObjectEchoClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/message/MsgEchoClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/SucceededFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/rendezvousBytes/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/DefaultCookie.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AbstractByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultEventLoopGroup.java
*

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/file/HttpStaticFileServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PoolChunkList.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/package-info.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultChannelPromise.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpContent.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/package-
info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/CompositeByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/discard/DiscardServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/factorial/NumberEncoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/Constant.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/cors/HttpCorsServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksInitRequest.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageToMessageCodec.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/securechat/SecureChatClientInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelPromiseNotifier.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerBase.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/IllegalReferenceCountException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/MessageToByteEncoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/sctp/oio/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/localecho/LocalEcho.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/udt/package-info.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/EventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/factorial/FactorialServer.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PoolSubpage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/snoop/HttpSnoopServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/PoolThreadCache.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/ByteBufAllocator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/NetUtil.java

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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/localecho/LocalEchoClientHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/ZlibUtil.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/ByteBufOutputStream.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/buffer/PooledByteBuf.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/socket/SocketChannel.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http/websocketx/server/WebSocketServerInitializer.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/compression/DecompressionException.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/SocksInitResponse.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/http/websocketx/package-info.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/util/HashedWheelTimer.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java

\*

/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/channel/group/ChannelGroupFutureListener.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/discard/DiscardServerHandler.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/factorial/FactorialClientInitializer.java

\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/util/concurrent/DefaultEventExecutor.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/discard/DiscardClientHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/securechat/SecureChatServerInitializer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/telnet/TelnetClientInitializer.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/buffer/ReadOnlyByteBuf.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/socksproxy/SocksServerInitializer.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/uptime/UptimeClientHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/nio/NioTask.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/socksproxy/RelayHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/logging/LoggingHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/example/udt/echo/rendezvous/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-  
jar/io/netty/channel/AbstractChannelHandlerContext.java

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*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpContentDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/timeout/package-info.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/package-info.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/TimerTask.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/upload/HttpUploadClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/websocketx/server/WebSocketServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http/snoop/HttpSnoopClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/message/MsgEchoClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/udt/UdtChannelConfig.java
*

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/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/socksproxy/DirectClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/portunification/PortUnificationServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/objectecho/ObjectEchoClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/worldclock/WorldClockClientInitializer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/securechat/SecureChatClient.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-

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jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/HttpObject.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/AbstractConstant.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/factorial/FactorialClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerOne.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/file/FileServer.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/buffer/SlicedByteBuf.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/ChannelException.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/echo/EchoClientHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/FileRegion.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http/CookieDecoder.java
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 * /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
 * /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
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jar/io/netty/buffer/PooledHeapByteBuf.java
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\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/redis/RedisClient.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/RedisDecoder.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/RedisMessage.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/ArrayRedisMessage.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/package-info.java  
\* /opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java  
\*  
/opt/cola/permits/1938510357\_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/io/netty/handler/codec/redis/RedisConstants.java

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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/RedisMessagePool.java
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
*
/opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
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* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
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```

Found in path(s):

```
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-jar/META-
INF/maven/io.netty/netty-all/pom.xml
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 */
// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE
```

Found in path(s):

```
* /opt/cola/permits/1938510357_1710740533.6229436/0/netty-all-4-1-49-final-sources-3-
jar/io/netty/handler/codec/http2/HttpConversionUtil.java
```

# 1.1535 nimbus-jose-jwt 8.9

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## 1.1536 pool 1.5.3

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## 1.1537 shiro-config-ogdl 1.6.0

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The implementation for `org.apache.shiro.util.SoftHashMap` is based on initial ideas from Dr. Heinz Kabutz's publicly posted version

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# 1.1540 shiro-config-core 1.6.0

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The implementation for `org.apache.shiro.util.SoftHashMap` is based on initial ideas from Dr. Heinz Kabutz's publicly posted version available at <http://www.javaspecialists.eu/archive/Issue015.html>, with continued modifications.

Certain parts (StringUtils, IPAddressMatcher, etc.) of the source code for this product was copied for simplicity and to reduce dependencies from the source code developed by the Spring Framework Project (<http://www.springframework.org>).

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The implementation for `org.apache.shiro.util.SoftHashMap` is based  
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# 1.1546 camel-jackson 2.15.2

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# 1.1560 @babel/plugin-transform-optional-chaining 7.22.15

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# 1.1562 @webassemblyjs/helper-module-context 1.9.0

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# 1.1563 @babel/plugin-transform-destructuring 7.22.15

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# 1.1564 @types/react 18.2.21

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# 1.1565 @babel/plugin-proposal-private-property-in-object 7.21.11

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## 1.1567 icss-utils 4.1.1

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## 1.1568 @babel/plugin-syntax-function-sent

### 7.22.5

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## 1.1569 rx 2.5.3

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## 1.1570 @babel/plugin-proposal-throw-expressions 7.22.5

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# 1.1572 @babel/helper-define-polyfill-provider

## 0.4.2

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# 1.1573 postcss-modules-values 3.0.0

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# 1.1574 @babel/plugin-syntax-pipeline-operator 7.22.5

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# 1.1575 @webassemblyjs/helper-wasm-section 1.9.0

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## 1.1576 @webassemblyjs/helper-api-error

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# 1.1577 @babel/plugin-proposal-pipeline-operator 7.22.15

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# 1.1578 @babel/plugin-proposal-logical-assignment-operators 7.20.7

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# 1.1580 @babel/plugin-proposal-do-expressions 7.22.5

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# 1.1581 transform-loader 0.2.4

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## 1.1582 @webassemblyjs/helper-wasm-bytecode 1.9.0

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## 1.1583 @sinonjs/samsam 6.1.3

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## 1.1585 cyclist 1.0.2

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## 1.1586 webpack-bundle-analyzer 3.9.0

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## 1.1587 dom-walk 0.1.2

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# 1.1591 babel-plugin-proposal-decorators

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## 1.1592 css-loader 3.6.0

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## 1.1596 globule 1.3.4

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# 1.1600 babel-plugin-add-module-exports 1.0.4

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# 1.1601 style-loader 1.3.0



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## 1.1609 harbor-elements-utils 0.0.7

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## 1.1624 @babel/helper-module-transforms

### 7.22.19

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## 1.1626 react-transform-hmr 1.0.4

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## 1.1627 @sinonjs/fake-timers 7.1.2

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## 1.1632 whatwg-fetch 3.6.19

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## 1.1634 @babel/plugin-transform-async-generator-functions 7.22.15

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## 1.1639 url-loader 2.3.0

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## 1.1640 vorpal 1.12.0

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## 1.1641 core-js-compat 3.32.2

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## 1.1642 less-loader 5.0.0

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## 1.1643 @babel/plugin-transform-block-scoping 7.22.15

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## 1.1645 @babel/polyfill 7.12.1



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## 1.1646 @babel/helper-remap-async-to-generator 7.22.17

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## 1.1647 check-types 8.0.3

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# 1.1651 @babel/plugin-proposal-function-bind

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# 1.1653 @babel/plugin-syntax-function-bind

## 7.22.5

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## 1.1655 @webassemblyjs/floating-point-hex-parser 1.9.0

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## 1.1656 webpack-dev-middleware 3.7.3

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## 1.1657 react-proxy 1.1.8

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## 1.1659 **readline2 0.1.1**

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## 1.1660 **@babel/traverse 7.22.19**

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## 1.1661 **node-localstorage 0.6.0**

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# 1.1662 gulp-template 5.0.0

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# 1.1663 react-vtree 3.0.0-beta.3

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## 1.1664 @jridgewell/resolve-uri 3.1.2

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## 1.1665 hazelcast-client-protocol 1.4.1

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*/
/**
* <p>
* Aligned { @link MemoryAccessor } which checks for and handles unaligned memory access
* by splitting a larger-size memory operation into several smaller-size ones
* (which have finer-grained alignment requirements).
* </p><p>
* A few notes on this implementation:
* <ul>
* <li>
*
*     There is no atomicity guarantee for unaligned memory accesses.
*
*     In fact, even on platforms which support unaligned memory accesses,
*     there is no guarantee for atomicity when there is unaligned memory accesses.
*
*     On later Intel processors, unaligned access within the cache line is atomic,
*     but access that straddles cache lines is not.
*
*     See http://psy-lob-saw.blogspot.com.tr/2013/07/atomicity-of-unaligned-memory-access-in.html
*     for more details.
*
* </li>
* <li>Unaligned memory access is not supported for CAS operations. </li>
* <li>Unaligned memory access is not supported for ordered writes. </li>
* </ul>
* </p>
*/

```

Found in path(s):

```

* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/memory/impl/AlignmentAwareMemoryAccessor.java

```

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```

```

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*/
/**
 * This method changes the given async cause, and it adds the also given local stacktrace separated by the
 * supplied exception message.<br/>
 * If the remoteCause is an { @link java.util.concurrent.ExecutionException } and it has a non-null inner
 * cause, this inner cause is unwrapped
and the local stacktrace and exception message are added to the
 * that instead of the given remoteCause itself.
 *
 * @param asyncCause      the async exception
 * @param localSideStackTrace  the local stacktrace to add to the exceptions stacktrace
 * @param localExceptionMessage a special exception message which is added to the stacktrace
 */

```

Found in path(s):

```

* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/ExceptionUtil.java

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jar/com/hazelcast/internal/util/concurrent/Pipe.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/util/concurrent/QueuedPipe.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/util/concurrent/AbstractConcurrentArrayQueue.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/util/concurrent/ManyToOneConcurrentArrayQueue.java

```



\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/util/concurrent/OneToOneConcurrentArrayQueue.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/EntryEventFilter.java

\*

/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/exception/WrongTargetException.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/jmx/ConnectionManagerMBean.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/operations/TriggerExplicitSuspicionOp.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/util/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/metrics/LongGauge.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/map/MapEvictAllMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/ascii/memcache/GetCommand.java

\*

/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/metrics/Metric.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/concurrent/countdownlatch/operations/CountDownLatchReplicationOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/console/ConsoleApp.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

```

jar/com/hazelcast/replicatedmap/impl/client/ReplicatedMapEntries.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/security/permission/CountDownLatchPermission.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/topic/impl/PublishOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/countdownlatch/CountDownLatchProxy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/countdownlatch/operations/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/AbstractMapAllPartitionsMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/impl/task/TrackableJobFuture.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/subscriber/SubscriberContextSupport.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/Operation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/operation/PutFromLoadAllOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/jmx/EventServiceMBean.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/event/QueryCacheEventDataBuilder.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/subscriber/QueryCacheRecordStore.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/querycache/subscriber/DefaultQueryCache.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/aggregation/impl/BigDecimalSumAggregator.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/partition/membertgroup/SPIAwareMemberGroupFactory.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cluster/membersselector/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/eviction/EvictionPolicyComparator.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/writebehind/WriteBehindManager.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/impl/operation/ProcessingOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/memory/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/operations/PostJoinClientOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/SecurityConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/PartitionAware.java
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jar/com/hazelcast/client/impl/protocol/task/atomiclong/AtomicLongGetMessageTask.java
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jar/com/hazelcast/core/ExecutionCallback.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/util/OperatingSystemMXBeanSupport.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/util/executor/NamedThreadPoolExecutor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/transaction/impl/TransactionContextImpl.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/operations/CompareAndRemoveOperation.java
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 jar/com/hazelcast/config/LoginModuleConfig.java  
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 jar/com/hazelcast/internal/nearcache/impl/invalidation/BatchInvalidator.java  
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 jar/com/hazelcast/spi/UrgentSystemOperation.java  
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 jar/com/hazelcast/wan/impl/WanDataSerializerHook.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/internal/cluster/impl/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/MapPartitionDestroyTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/mapstore/StoreConstructor.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/InternalEntryListenerAdapter.java  
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 jar/com/hazelcast/security/permission/ClusterPermissionCollection.java  
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 jar/com/hazelcast/internal/management/request/ChangeWanStateRequest.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/internal/memory/impl/UnsafeBasedMemoryAccessor.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/config/MapStoreConfig.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/aggregation/impl/IntegerSumAggregator.java  
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 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/client/impl/protocol/task/AddDistributedObjectListenerMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/mapreduce/impl/task/JobSupervisor.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/spi/impl/PortableMapPartitionLostEvent.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/console/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/operation/ContainsValueOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/diagnostics/DiagnosticsLogWriter.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/management/dto/MXBeansDTO.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/template/TemplateConstants.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/collection/operations/CollectionCompareAndRemoveOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/MembershipServiceEvent.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/operations/ReduceBackupOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/networking/SocketConnection.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/serialization/impl/ByteArraySerializerAdapter.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cardinality/impl/operations/EstimateOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/scheduledexecutor/ScheduledExecutorTaskGetResultFromPartitionMess
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/serialization/impl/FactoryIdHelper.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/tx/TxnUnlockOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/operation/ReplicateUpdateOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/internal/diagnostics/StoreLatencyPlugin.java
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jar/com/hazelcast/client/impl/protocol/task/transactionalqueue/package-info.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/operation/PutOperation.java
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/aggregation/impl/DoubleSumAggregator.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/collection/AbstractCollectionProxyImpl.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/monitor/LocalWanPublisherStats.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/MapEvent.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/query/AggregationResult.java  
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/wan/impl/WanReplicationServiceImpl.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/PagingPredicateAccessor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/map/impl/querycache/publisher/PublisherContext.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/MapFlushMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/MapIndexConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/cache/CacheIterateEntriesMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transactionalqueue/TransactionalQueuePeekMessageTask.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cardinality/impl/hyperloglog/impl/HyperLogLogImpl.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/ringbuffer/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/set/SetContainsAllMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/diagnostics/MemberHazelcastInstanceInfoPlugin.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/collection/operations/CollectionAddOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/operation/VersionResponsePair.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/partition/impl/PartitionStateGeneratorImpl.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/CacheDataSerializerHook.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/publisher/AccumulatorSweeper.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/predicates/NotEqualPredicate.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/multimap/MultiMapKeySetMessageTask.java
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jar/com/hazelcast/internal/util/filter/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/monitor/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/partition/membgroup/MemberGroupFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/transaction/impl/operations/CreateTxBackupLogOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/CacheKeyIterationResult.java
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jar/com/hazelcast/config/WANQueueFullBehavior.java

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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/adaptor/MethodNotAvailable.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/MapAddPartitionLostListenerMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/transaction/impl/xa/operations/ClearRemoteTransactionOperation.java
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jar/com/hazelcast/internal/nearcache/NearCacheManager.java
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jar/com/hazelcast/internal/nearcache/impl/record/AbstractNearCacheRecord.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/query/impl/predicates/QueryOptimizer.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/EntryAdapter.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/SortingUtil.java
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jar/com/hazelcast/map/impl/operation/PutOperation.java
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/client/impl/protocol/AuthenticationStatus.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/multimap/impl/txn/TxnRemoveAllOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/subscriber/record/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/CombinerFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/annotation/package-info.java
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jar/com/hazelcast/internal/partition/impl/PartitionReplicaStateChecker.java
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jar/com/hazelcast/concurrent/atomiclong/AtomicLongProxy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/multimap/impl/operations/RemoveAllOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/ClusterDataSerializerHook.java
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jar/com/hazelcast/multimap/impl/txn/TransactionalMultiMapProxySupport.java
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jar/com/hazelcast/client/impl/protocol/task/lock/LockIsLockedByCurrentThreadMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/monitor/HotRestartState.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/ListConfig.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/usercodedeployment/impl/UserCodeDeploymentSerializerHook.java
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jar/com/hazelcast/spi/impl/operationservice/impl/InvocationMonitor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/list/operations/ListIndexOfOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/UnsortedIndexStore.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/client/MapPortableHook.java
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jar/com/hazelcast/spi/ObjectNamespace.java
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jar/com/hazelcast/internal/config/ConfigValidator.java  
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 jar/com/hazelcast/spi/impl/operationservice/impl/InvocationFuture.java  
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 jar/com/hazelcast/internal/util/hashslot/impl/CapacityUtil.java  
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 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/SetOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/query/impl/getters/SuffixModifierUtils.java  
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 jar/com/hazelcast/executor/impl/operations/ShutdownOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/collection/impl/collection/operations/CollectionAddBackupOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/query/impl/predicates/NotPredicate.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/spi/impl/operationexecutor/OperationRunner.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/ReplaceOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/query/PartitionPredicate.java  
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 jar/com/hazelcast/nio/tcp/ClientWriteHandler.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/mapstore/writebehind/entry/DeletedDelayedEntry.java  
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 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/nio/serialization/impl/Versioned.java  
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jar/com/hazelcast/client/impl/protocol/task/executorservice/ExecutorServiceCancelOnAddressMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/event/sequence/package-info.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/AbstractMapAddEntryListenerMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/adapter/TransactionalMapDataStructureAdapter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/ascii/rest/RestValue.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/nearcache/impl/invalidation/ToHeapDataConverter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/operations/SemaphoreReplicationOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/LocalMapStatsProvider.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/MapStoreFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/extractor/ValueExtractor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/executor/SingleExecutorThreadFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/getters/ThisGetter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/event/EntryEventData.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/writebehind/StoreListener.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/set/operations/SetReplicationOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/operations/FetchMembersViewOp.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/WanReplicationConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/client/impl/protocol/task/mapreduce/MapReduceForMapMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/topic/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/AbstractCacheService.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/subscriber/record/ObjectQueryCacheRecordFactory.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transaction/XAFinalizeTransactionMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/getters/NullGetter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationexecutor/impl/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/KeyPredicate.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/atomicreference/operations/AtomicReferenceReplicationOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/instance/HazelcastThreadGroup.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/memory/impl/CustomByteAccessStrategy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/replicatedmap/ReplicatedMapAddEntryListenerMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/publisher/PublisherRegistry.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/scheduledexecutor/impl/ScheduledExecutorMemberOwnedContainer.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/ManagedContext.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/ReplicationSupportingService.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/metrics/DoubleProbeFunction.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/partition/MigrationEndpoint.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/operations/ReleaseOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transactionalset/TransactionalSetRemoveMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/MessageListener.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/monitor/impl/LocalExecutorStatsImpl.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transactionalset/TransactionalSetSizeMessageTask.java

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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/DefaultMessageTaskFactoryProvider.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/LockConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/nio/tcp/InitConnectionTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/MapSubmitToKeyMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/ICondition.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/NodeMulticastListener.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/ReplicatedMapService.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/impl/task/KeyValueJob.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/MapStoreManager.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/atomiclong/operations/GetOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/nio/serialization/TypedByteArrayDeserializer.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/logging/NoLogFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/discovery/NodeFilter.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transactionalqueue/TransactionalQueueOfferMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/diagnostics/SlowOperationPlugin.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/AbstractInvocationFuture.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/JobCompletableFuture.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/PhoneHome.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/operation/EntryOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/nearcache/invalidation/MemberMapMetaDataFetcher.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationexecutor/OperationRunnerFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/eviction/EvictionChecker.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/predicates/CompoundPredicate.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/impl/operation/NotifyRemoteExceptionOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/package-info.java

\*

/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/semaphore/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/map/MapAssignAndGetUidsOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/security/UsernamePasswordCredentials.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cache/impl/JCacheDetector.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/partition/impl/PartitionDataSerializerHook.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/queue/QueueContainer.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/event/FilteringStrategy.java

\*

/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/getters/Extractors.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/exception/RetryableHazelcastException.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/executor/impl/RunnableAdapter.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/wan/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/partition/operation/PartitionStateOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/scheduledexecutor/impl/operations/AbstractSchedulerOperation.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/networking/nonblocking/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/usercodedeployment/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/operationservice/impl/OperationServiceImpl.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/transaction/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/function/Supplier.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/jmx/suppliers/LocalQueueStatsSupplier.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/executorservice/ExecutorServiceSubmitToPartitionMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/nearcache/impl/invalidation/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/proxyservice/impl/operations/PostJoinProxyOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/txnqueue/TransactionalQueueProxySupport.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/EventRegistration.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/collection/operations/CollectionReplicationOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/management/dto/MapConfigDTO.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/operations/IsEmptyOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/durableexecutor/impl/operations/RetrieveResultOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/CachedQueryEntry.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/map/MapAssignAndGetUidsOperationFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/PartitionAwareOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/merge/PassThroughCacheMergePolicy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationservice/impl/responses/BackupAckResponse.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/QueueStore.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/serialization/impl/DefaultSerializationServiceBuilder.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/serialization/impl/bufferpool/BufferPool.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/instance/LifecycleServiceImpl.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/WanConsumerConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/ReplicatedMapConfigReadOnly.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/EventLostEvent.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/metrics/ProbeLevel.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/map/impl/querycache/subscriber/AbstractQueryCacheConfigurator.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/internal/cluster/Versions.java  
\*  
/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/internal/diagnostics/DiagnosticsLogFile.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/cache/impl/operation/CachePutAllOperation.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/map/impl/record/ObjectRecord.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/mapreduce/aggregation/impl/IntegerAvgAggregation.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/config/ServiceConfig.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/durableexecutor/impl/DurableExecutorContainer.java  
\*  
/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/cache/impl/event/CachePartitionLostEvent.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/nio/NodeIOService.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/topic/TopicOverloadException.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/mapreduce/LifecycleMapperAdapter.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/scheduledexecutor/impl/operations/ResultReadyNotifyOperation.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/nio/tcp/ClientReadHandler.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/internal/cluster/impl/operations/MasterConfirmationOp.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/client/impl/protocol/task/map/MapEvictMessageTask.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/client/impl/protocol/task/cache/package-info.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/replicatedmap/impl/PartitionContainer.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/client/impl/protocol/task/transaction/XACollectTransactionsMessageTask.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/spi/CoreService.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/spi/exception/DistributedObjectDestroyedException.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/concurrent/atomicreference/operations/CompareAndSetOperation.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/map/MapKeySetWithPagingPredicateMessageTask.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/queue/QueueProxyImpl.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/set/SetContainsMessageTask.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/MigrationListener.java  
\*  
/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/MapServiceContextEventListenerSupport.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/OwnedEntryCostEstimatorFactory.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/transaction/impl/package-info.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cardinality/impl/CardinalityEstimatorProxy.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/ComparisonType.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/eventservice/impl/EventServiceImpl.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/querycache/event/sequence/Sequenced.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/discovery/DiscoveryNode.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/nearcache/impl/preloader/package-info.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/security/permission/MapReducePermission.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/collection/operations/CollectionAddAllOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/replicatedmap/AbstractReplicatedMapAddEntryListenerMessageTask.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/ClusterStateChange.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/eviction/impl/comparator/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/listener/EntryAddedListener.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/multimap/impl/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/impl/predicates/GreaterLessPredicate.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/instance/DefaultNodeExtension.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/CacheConfiguration.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/executorservice/durable/DurableExecutorDisposeResultMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/atomicreference/AtomicReferenceCompareAndSetMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/EntryViews.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/QueueDataSerializerHook.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/ServiceLoader.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/impl/MapReduceService.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/instance/NodeExtension.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/scheduledexecutor/ScheduledExecutorTaskDisposeFromPartitionMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/operation/CacheListenerRegistrationOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/executor/ManagedExecutorService.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/aggregation/impl/DoubleMinAggregation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/metrics/impl/MethodProbe.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/transactionalmap/TransactionalMapReplaceIfSameMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/operations/DrainOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/operations/DrainOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/ClusterJoinManager.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/memory/impl/UnsafeUtil.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/WanReplicationRefReadOnly.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/NodeEngine.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/CacheEventContext.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/MapLoader.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/partition/NoDataMemberInClusterException.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationexecutor/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/merge/HigherHitsMapMergePolicy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/MapServiceContext.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/operations/MergeClustersOp.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/writebehind/StoreEvent.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/RandomPicker.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/nio/serialization/Data.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/operation/SyncReplicatedMapDataOperation.java
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jar/com/hazelcast/security/permission/SetPermission.java
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jar/com/hazelcast/client/impl/protocol/task/condition/ConditionSignalAllMessageTask.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/operation/CacheCreateConfigOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/nearcache/impl/store/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/querycache/subscriber/record/DataQueryCacheRecordFactory.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/internal/nearcache/impl/invalidation/Invalidator.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/IsPartitionLoadedOperationFactory.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/quorum/impl/QuorumServiceImpl.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/client/impl/protocol/task/topic/TopicRemoveMessageListenerMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/config/PredicateConfig.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/config/XmlConfigBuilder.java  
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 \*  
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 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/client/impl/protocol/task/map/MapMadePublishableMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/internal/util/sort/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/query/extractor/ArgumentParser.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cardinality/impl/CardinalityEstimatorDataSerializerHook.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cardinality/impl/hyperloglog/impl/HyperLogLogEncoding.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/hotrestart/HotRestartService.java



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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/operation/MapFlushOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/security/SecurityContext.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/operationservice/impl/responses/Response.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/ringbuffer/package-info.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/logging/AbstractLogger.java

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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/management/request/package-info.java
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jar/com/hazelcast/config/QueryCacheConfig.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/operations/AuthenticationFailureOp.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/usercodedeployment/impl/GlobalMutex.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/security/permission/CardinalityEstimatorPermission.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/aggregation/Aggregators.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/semaphore/operations/SemaphoreBackupAwareOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/cluster/impl/operations/FinalizeJoinOp.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/ringbuffer/impl/Ringbuffer.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/properties/PropertyTypeConverter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/internal/ascii/memcache/IncrementCommandProcessor.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/internal/partition/PartitionServiceProxy.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/replicatedmap/impl/record/ReplicatedRecordStore.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/spi/impl/eventservice/InternalEventService.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/querycache/subscriber/record/AbstractQueryCacheRecord.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cache/impl/operation/CacheBackupEntryProcessorOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/ringbuffer/StaleSequenceException.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/client/impl/protocol/task/cache/CacheReplaceMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/internal/cluster/impl/operations/ExplicitSuspicionOp.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cardinality/impl/hyperloglog/HyperLogLog.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/util/executor/DelegatingFuture.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/MergeOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/spi/RemoteService.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/cache/impl/CacheSplitBrainHandler.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/MapEntries.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/operation/AddIndexOperationFactory.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/client/impl/protocol/task/AuthenticationCustomCredentialsMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/replicatedmap/ReplicatedMapCantBeCreatedOnLiteMemberException.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/client/impl/protocol/task/transactionalmultimap/TransactionalMultiMapGetMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/concurrent/atomicreference/operations/IsNullOperation.java

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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationexecutor/slowoperationdetector/SlowOperationLog.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/impl/operationservice/impl/OperationBackupHandler.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/writebehind/CoalescedWriteBehindQueue.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/operations/AddAllBackupOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/event/AbstractICacheEvent.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/operation/CachePutBackupOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/Client.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/metrics/metricsets/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/networking/SocketReader.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/quorum/Quorum.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/PostJoinAwareService.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/NearCachePreloaderConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/query/Predicate.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/impl/CacheEntryProcessorEntry.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/ClientHeartbeatMonitor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cluster/memberselector/OrMemberSelector.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/MemberAttributeConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/tx/MapTransactionLogRecord.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/HotRestartPersistenceConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/cache/AbstractCacheAllPartitionsTask.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/ClientEvent.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/atomiclong/AtomicLongGetAndIncrementMessageTask.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/osgi/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/serialization/impl/SerializerHookLoader.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/hotrestart/NoOpHotRestartService.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cardinality/impl/operations/AbstractCardinalityEstimatorOperation.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/util/collection/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/impl/operation/KeysAssignmentOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/impl/operation/GetResultOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/predicates/OrPredicate.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/topic/impl/DataAwareMessage.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/nearcache/impl/invalidation/StaleReadDetector.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/serialization/impl/SerializationConstants.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/function/BiConsumer.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/map/AbstractMapClientNearCacheInvalidationListener.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/queue/operations/package-info.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/impl/operation/ProcessStatsUpdateOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/UnmodifiableLazyList.java  
 \*  
 /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/list/operations/ListAddOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/operation/KeyLoadStatusOperation.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/ClientEndpointManager.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/Hazelcast.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/config/ManagementCenterConfig.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/scheduledexecutor/impl/ScheduledTaskDescriptor.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/spi/impl/operationparker/impl/ParkedOperation.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/discovery/DiscoveryStrategyFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/nearcache/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/querycache/subscriber/operation/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/writebehind/StoreWorker.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/aggregation/impl/DistinctValuesAggregation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/AbstractLocalOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/multimap/MultiMapPutMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/collection/impl/queue/operations/ContainsOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/ReplicatedMapConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/management/dto/SlowOperationInvocationDTO.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/util/filter/AndFilter.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/serialization/impl/EmptyObjectDataOutput.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/cache/CacheUtil.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/aggregation/impl/PredicateSupplier.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/core/server/StartServer.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/usercodedeployment/UserCodeDeploymentClassLoader.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/scheduledexecutor/impl/ScheduledTaskResult.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/ringbuffer/impl/operations/AddOperation.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/nearcache/impl/record/NearCacheDataRecord.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/util/counters/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/EntryView.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/nio/serialization/DataSerializableFactory.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/replicatedmap/impl/record/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/spi/serialization/package-info.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/codec/UUIDCodec.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/atomicreference/operations/SetBackupOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/mapstore/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/ComposedKeyMap.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/topic/ReliableMessageListener.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/CacheConfig.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/OperationTimeoutException.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/spi/discovery/multicast/MulticastDiscoveryStrategy.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/cache/impl/CacheEventListenerAdaptor.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/map/impl/operation/PutAllOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/operations/GetConnectedClientsOperation.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/task/queue/QueueAddAllMessageTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/ascii/rest/HttpGetCommand.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/diagnostics/MetricsPlugin.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/internal/nearcache/impl/invalidation/RepairingTask.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/client/impl/protocol/codec/DistributedObjectInfoCodec.java
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/client/impl/protocol/constants/package-info.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/transaction/impl/xa/operations/FinalizeRemoteTransactionBackupOperation.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/mapreduce/impl/CombinerResultList.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/core/ICompletableFuture.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/concurrent/idgen/package-info.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/config/CacheSimpleEntryListenerConfig.java
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/querycache/accumulator/AccumulatorHandler.java  
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 jar/com/hazelcast/collection/impl/txnqueue/operations/QueueTransactionRollbackOperation.java  
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jar/com/hazelcast/internal/usercodedeployment/impl/operation/ClassDataFinderOperation.java  
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jar/com/hazelcast/internal/networking/spinning/package-info.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/mapreduce/aggregation/impl/BigDecimalSumAggregation.java  
\*  
/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/multimap/impl/txn/TxnRemoveOperation.java  
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jar/com/hazelcast/collection/impl/list/operations/ListAddAllOperation.java  
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jar/com/hazelcast/client/impl/protocol/task/condition/ConditionBeforeAwaitMessageTask.java  
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jar/com/hazelcast/client/impl/protocol/task/scheduledexecutor/ScheduledExecutorTaskGetStatisticsFromPartitionM  
essageTask.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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jar/com/hazelcast/mapreduce/Combiner.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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jar/com/hazelcast/instance/NodeShutdownHelper.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/MapServiceConstructor.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/MapMapper.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/serialization/impl/PortableUtils.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/MulticastListener.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/wan/WanReplicationPublisher.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cache/impl/TCKMBeanServerBuilder.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/executionservice/impl/BasicCompletableFuture.java  
\*  
/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/mapreduce/aggregation/impl/SetAdapter.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/HazelcastInstanceAware.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/predicates/EqualPredicate.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/tx/TxnPrepareBackupOperation.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/list/package-info.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/partition/PartitionRuntimeState.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/aggregation/impl/BigIntegerAverageAggregator.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/config/RingbufferConfig.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/core/ILock.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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*
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 jar/com/hazelcast/collection/impl/queue/QueueIterator.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
jar/com/hazelcast/cardinality/impl/CardinalityEstimatorService.java  
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jar/com/hazelcast/client/impl/protocol/task/GetPartitionsMessageTask.java  
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jar/com/hazelcast/map/impl/querycache/accumulator/DefaultCyclicBuffer.java  
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jar/com/hazelcast/mapreduce/impl/HashMapAdapter.java  
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jar/com/hazelcast/query/extractor/ValueReadingException.java  
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jar/com/hazelcast/internal/util/collection/LongSet.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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jar/com/hazelcast/logging/Slf4jFactory.java
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/eviction/EvictionConfiguration.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/ascii/memcache/DeleteCommandParser.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/cache/CacheContainsKeyMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/LifecycleListener.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/hotrestart/BackupTaskStatus.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/queue/operations/RemainingCapacityOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/Partition.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/transaction/impl/xa/XAResourceImpl.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/config/SymmetricEncryptionConfig.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/config/SetConfig.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/logging/LoggingService.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/operations/MembersUpdateOp.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/memory/NativeOutOfMemoryError.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/package-info.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/queue/QueueOfferMessageTask.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/instance/GeneratedBuildProperties.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/nio/IOUtil.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/durableexecutor/impl/DurableExecutorServiceProxy.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/networking/spinning/SpinningOutputThread.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/ascii/rest/HttpDeleteCommand.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/map/impl/mapstore/writebehind/DefaultWriteBehindProcessor.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/map/impl/operation/WriteBehindStateHolder.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
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 jar/com/hazelcast/map/impl/querycache/subscriber/operation/ReadAndResetAccumulatorOperation.java  
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 jar/com/hazelcast/cache/impl/SplitBrainAwareCacheRecordStore.java  
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jar/com/hazelcast/map/impl/operation/MapGetAllOperationFactory.java
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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jar/com/hazelcast/map/impl/query/CallerRunsPartitionScanExecutor.java
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jar/com/hazelcast/client/impl/protocol/task/queue/QueueAddListenerMessageTask.java  
 \* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-  
 jar/com/hazelcast/map/impl/SimpleEntryView.java  
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 jar/com/hazelcast/internal/util/hashslot/impl/HashSlotArray12byteKeyImpl.java  
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 jar/com/hazelcast/map/impl/LatencyTrackingMapStore.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/operationservice/impl/operations/Backup.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/serialization/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cache/impl/merge/entry/DefaultCacheEntryView.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/collection/impl/collection/operations/CollectionRemoveBackupOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/eviction/RandomEvictionPolicy.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/scheduledexecutor/impl/ScheduledExecutorMemberBin.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/query/impl/IndexImpl.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/operations/AbstractJoinOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/multimap/impl/operations/ValuesOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/nio/Protocols.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/record/DataRecordWithStats.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/partition/operation/FinalizePromotionOperation.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/operations/ClientReAuthOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/concurrent/lock/ConditionKey.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/operationservice/impl/InvocationRegistry.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/scheduledexecutor/ScheduledExecutorSubmitToAddressMessageTask.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/scheduledexecutor/ScheduledExecutorTaskCancelFromAddressMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/ascii/package-info.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/multimap/impl/operations/CountOperation.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/config/TcpIpConfig.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/wan/ReplicationEventObject.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/semaphore/SemaphoreTryAcquireMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/ConstructorFunction.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/lock/LockIsLockedMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/client/impl/protocol/task/cache/CacheRemoveEntryListenerMessageTask.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/concurrent/lock/LockStore.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/operation/BasePutOperation.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/MultiMap.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/operations/RollbackClusterStateOp.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/querycache/subscriber/SubscriberContext.java

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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/security/package-info.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/concurrent/lock/WaitersInfo.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/servicemanager/ServiceInfo.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/MemberMap.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/core/TransactionalList.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/map/impl/MapReplicationSupportingService.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cache/impl/operation/CacheDestroyOperation.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/servicemanager/ServiceManager.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/nearcache/impl/store/NearCacheObjectRecordStore.java  
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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/cache/impl/CacheClearResponse.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/spi/impl/operationparker/impl/OperationParkerImpl.java  
\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/internal/cluster/impl/operations/PostJoinOp.java  
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\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/collection/Long2LongHashMap.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/collection/LongHashSet.java

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/opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-jar/com/hazelcast/util/collection/IntHashSet.java

\* /opt/cola/permits/1968628660\_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-

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jar/com/hazelcast/util/collection/BiInt2ObjectMap.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/IntIterator.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/Int2ObjectHashMap.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
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* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/LongIterator.java
* /opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/Hashing.java
*
/opt/cola/permits/1968628660_1712748281.163443/0/hazelcast-client-protocol-1-4-1-sources-1-
jar/com/hazelcast/util/collection/Long2ObjectHashMap.java
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jar/com/hazelcast/internal/util/concurrent/package-info.java

```

# 1.1666 @jridgewell/set-array 1.2.1

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# 1.1672 fs.realpath 1.0.0

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,

```



```
  spdx: true
};
```

```
assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
...

```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef")', ' +
      "'UNLICENSED', or ' +
      "'SEE LICENSE IN <filename>",
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
...

```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
...

```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef")', ' +
    "'UNLICENSED', or ' +

```

```

    "SEE LICENSE IN <filename>",
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```

```javascript
assert.deepEqual(
  valid('SEE
LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

```

If there aren't any licensing terms, use `UNLICENSED`:

```

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
```

```

```
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
````
```

## 1.1693 color-name 1.1.3

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```
* /opt/cola/permits/2001404570_1714660971.7249954/0/jsr305-3-0-1-sources-4-  
jar/javax/annotation/concurrent/Immutable.java  
* /opt/cola/permits/2001404570_1714660971.7249954/0/jsr305-3-0-1-sources-4-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
* /opt/cola/permits/2001404570_1714660971.7249954/0/jsr305-3-0-1-sources-4-  
jar/javax/annotation/concurrent/GuardedBy.java
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# 1.1774 estraverse 4.3.0

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# 1.1779 isorelax 20090621

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 */
```

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```
*/opt/cola/permits/2002264690_1714712542.8493288/0/isorelax-20090621-sources-5-jar/org/iso_relax/dispatcher/IslandVerifier.java
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\*/opt/cola/permits/2002264690\_1714712542.8493288/0/isorelax-20090621-sources-5-jar/org/iso\_relax/dispatcher/IslandSchemaReader.java

# 1.1780 types-json-schema 7.0.15

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